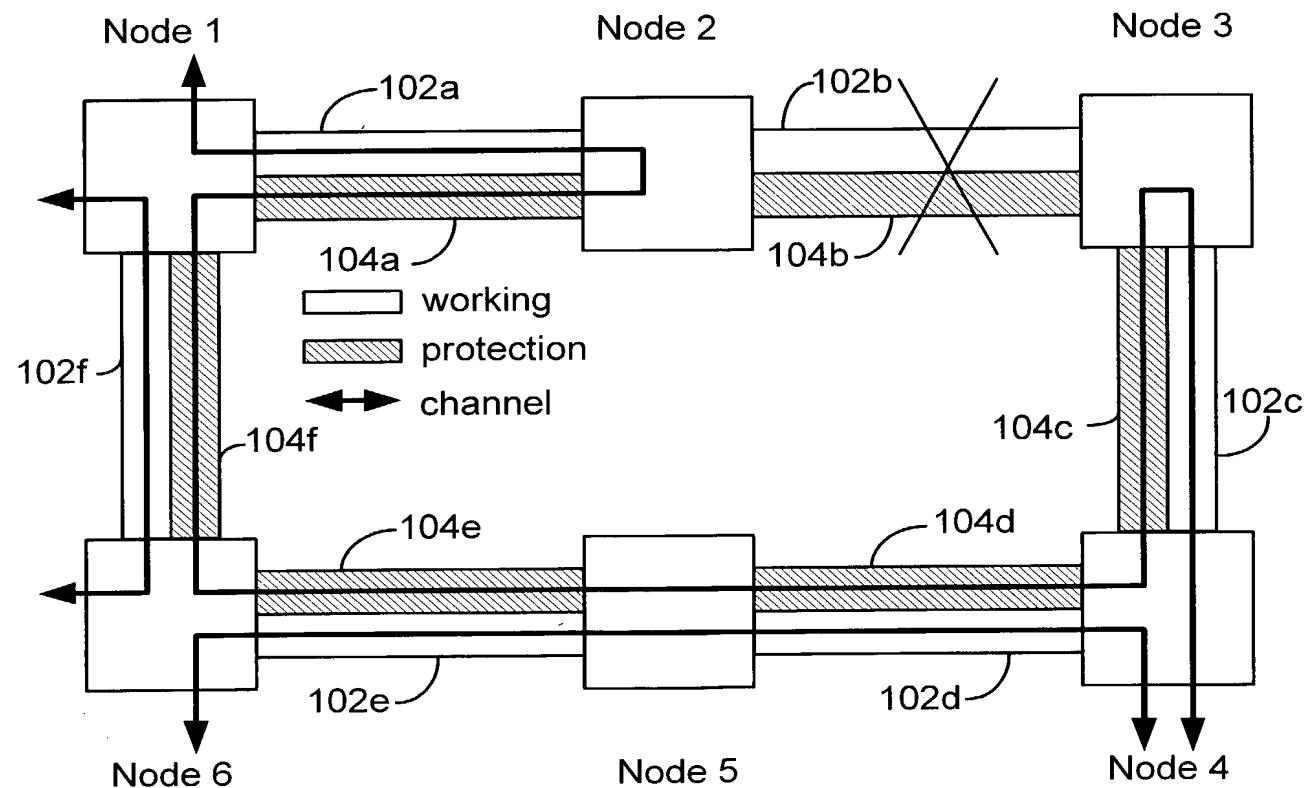


**FIG. 1.**



**FIG. 2.**

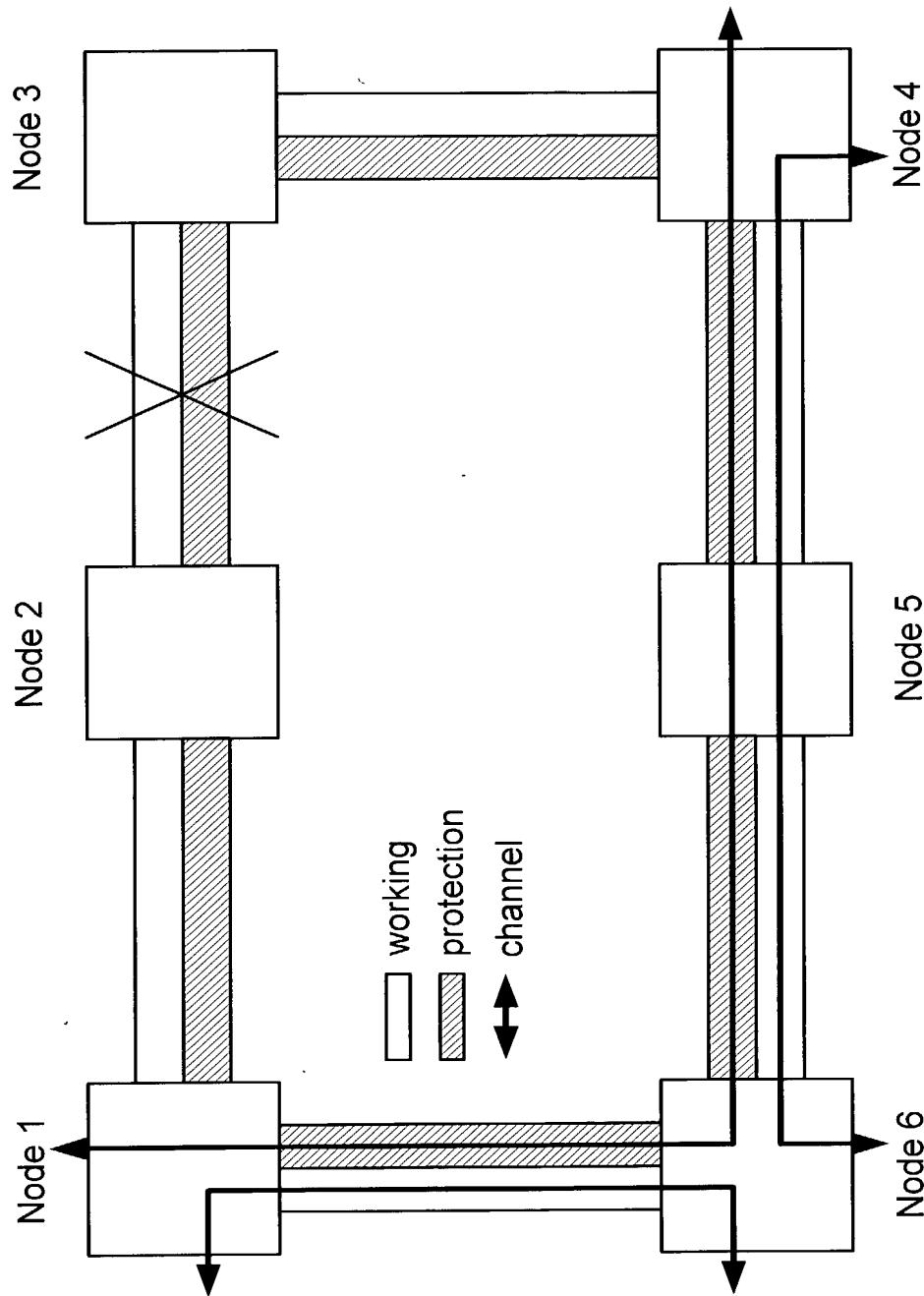
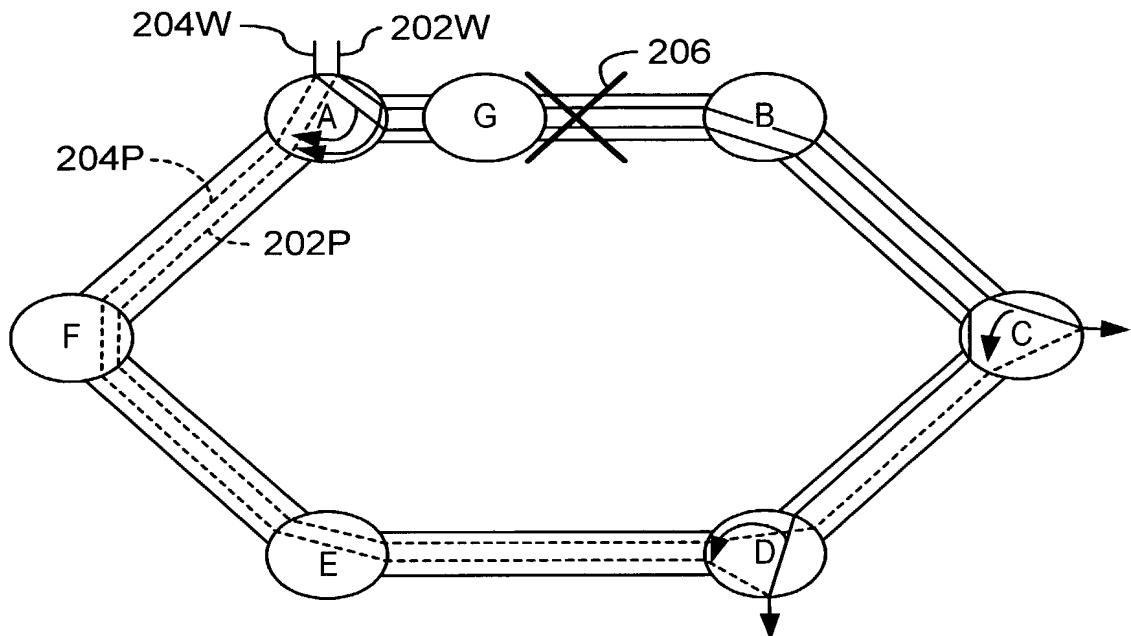
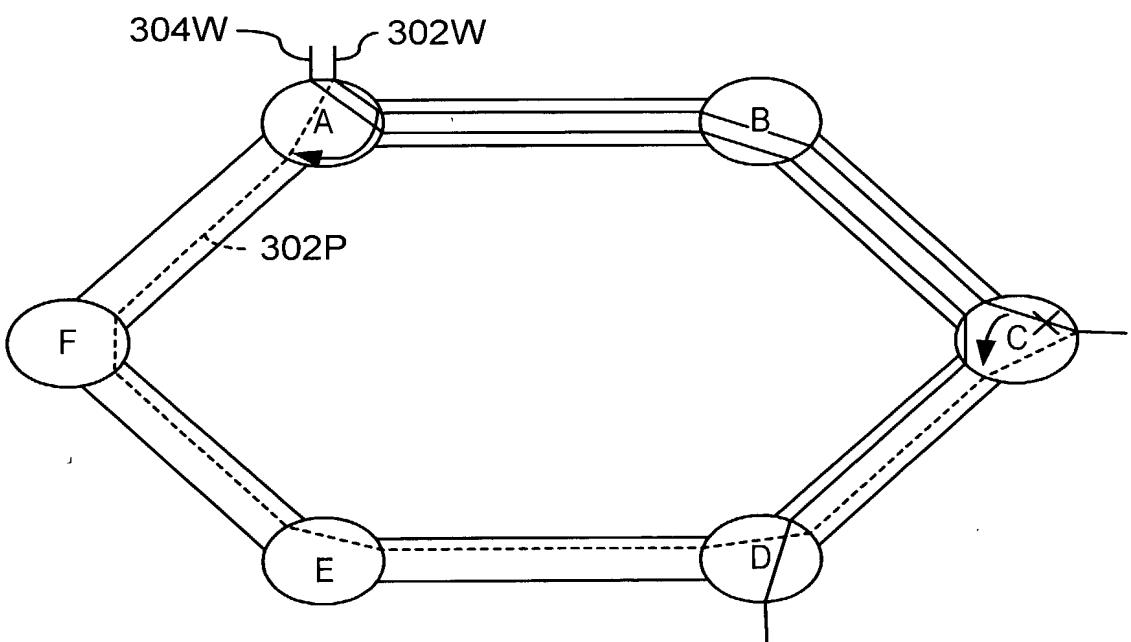
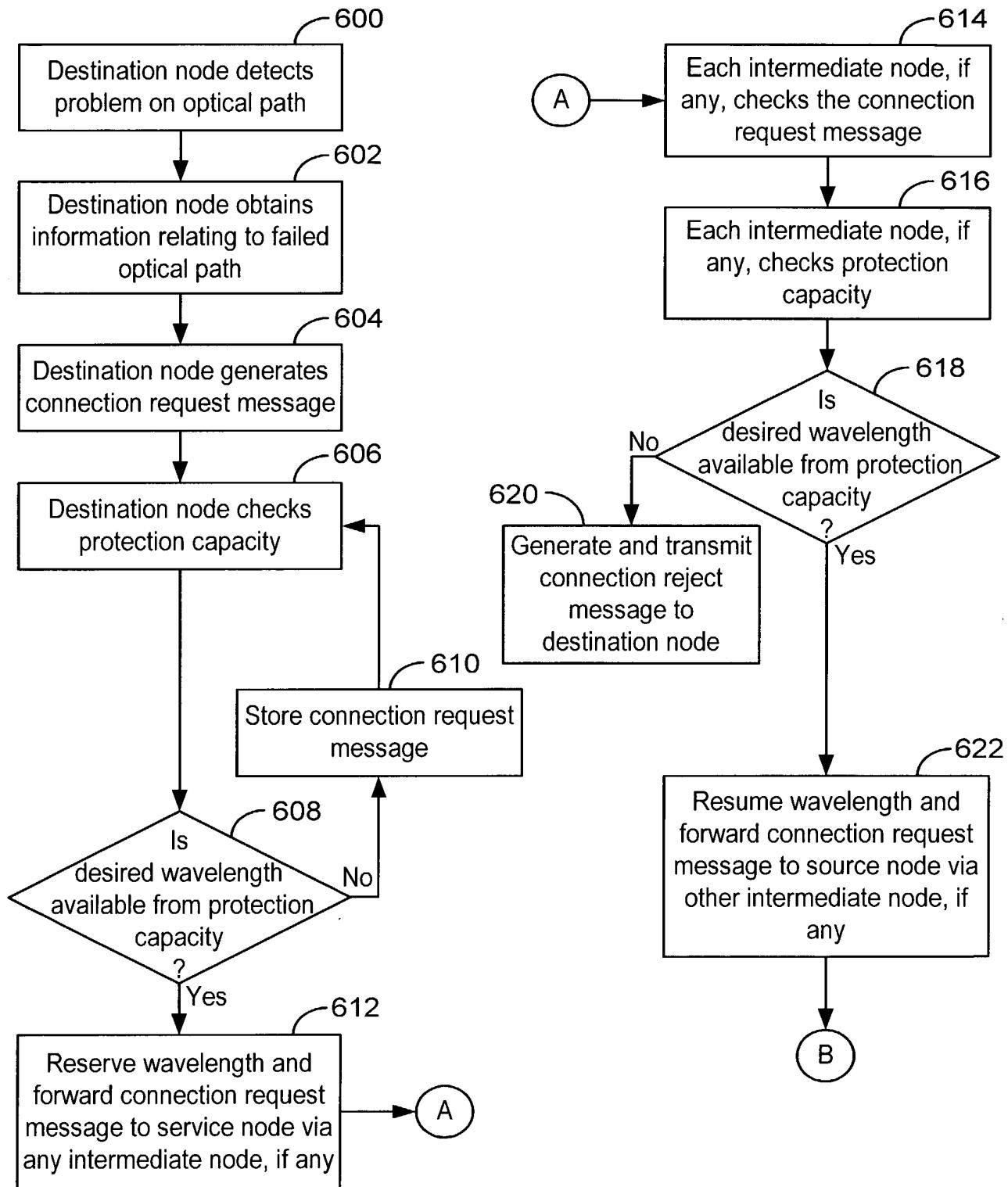
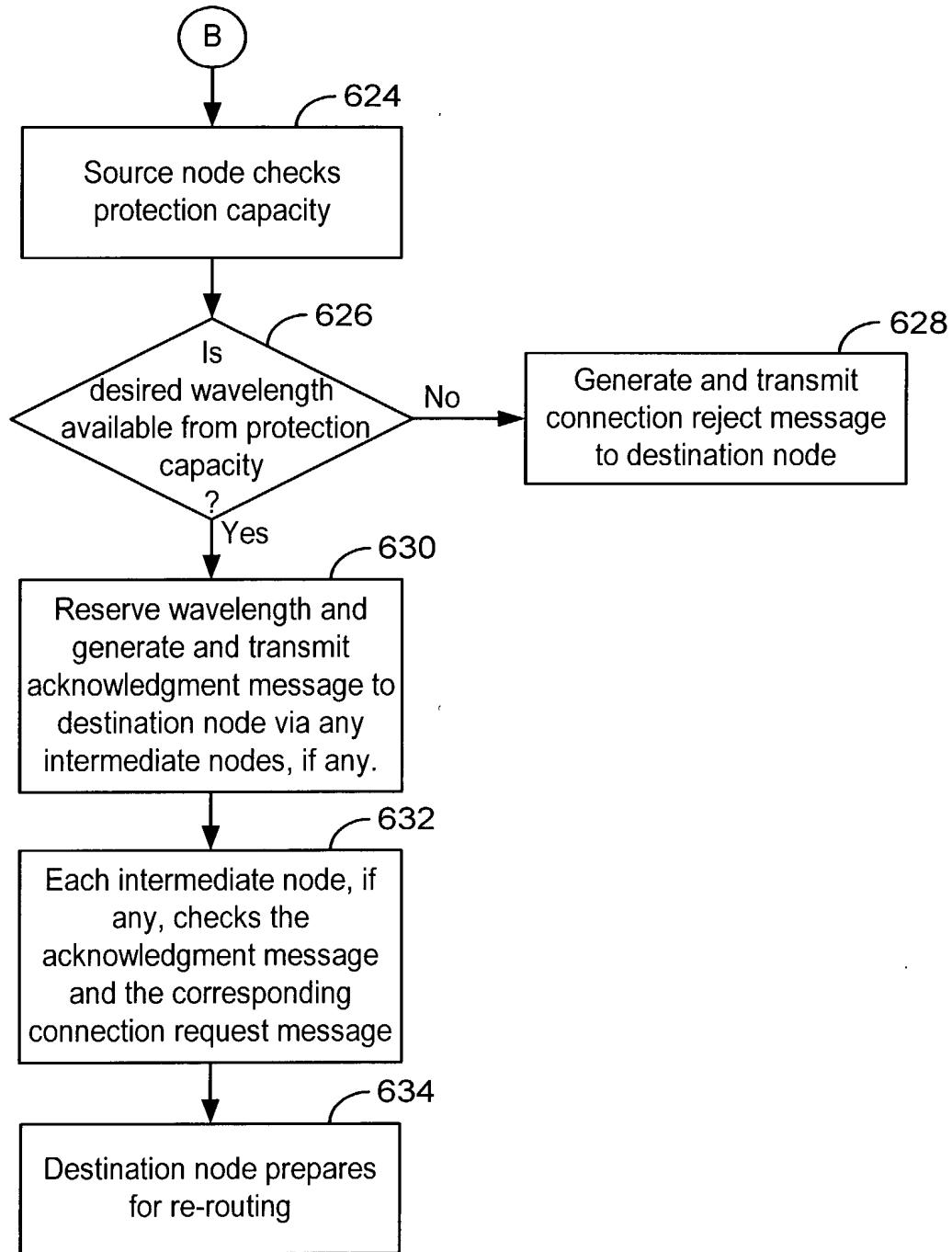


FIG. 3.

**FIG. 4.****FIG. 5.**

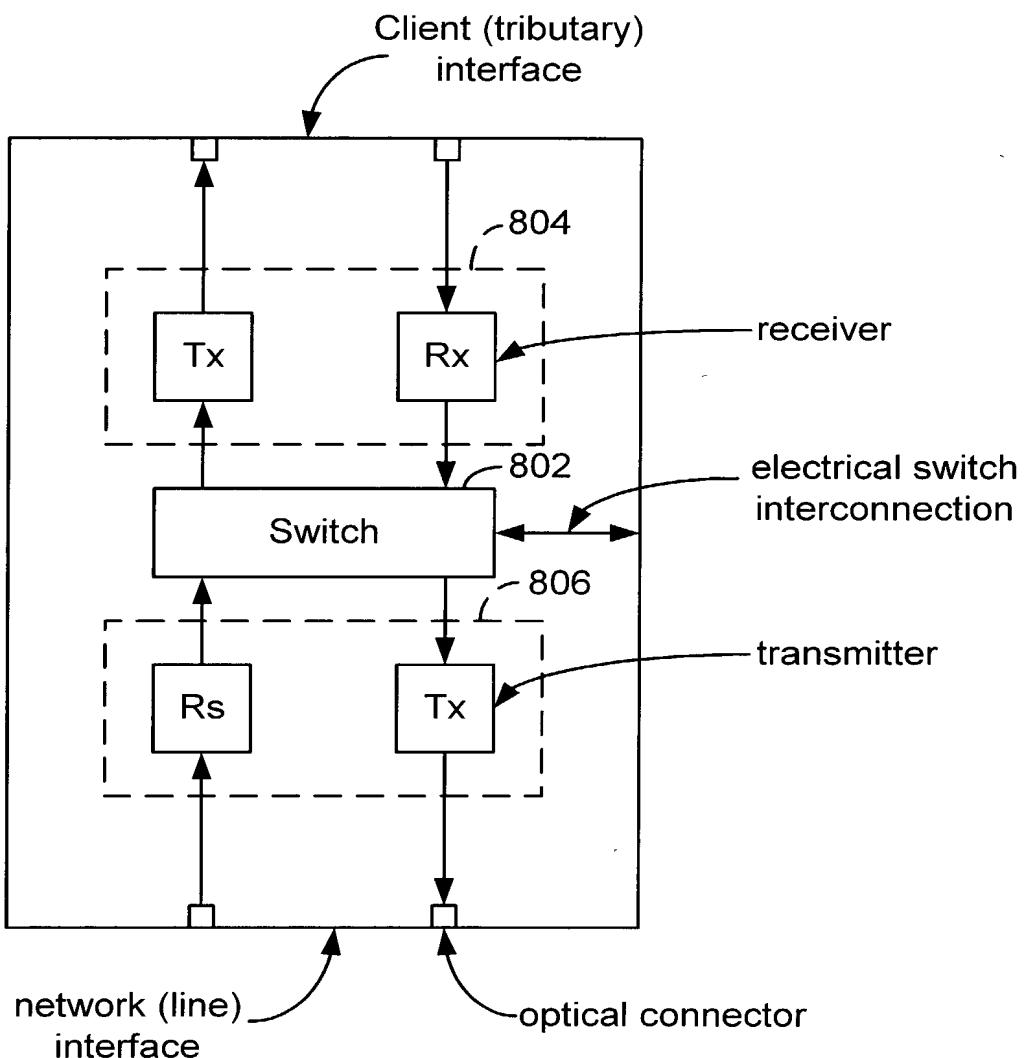
**FIG. 6A.**

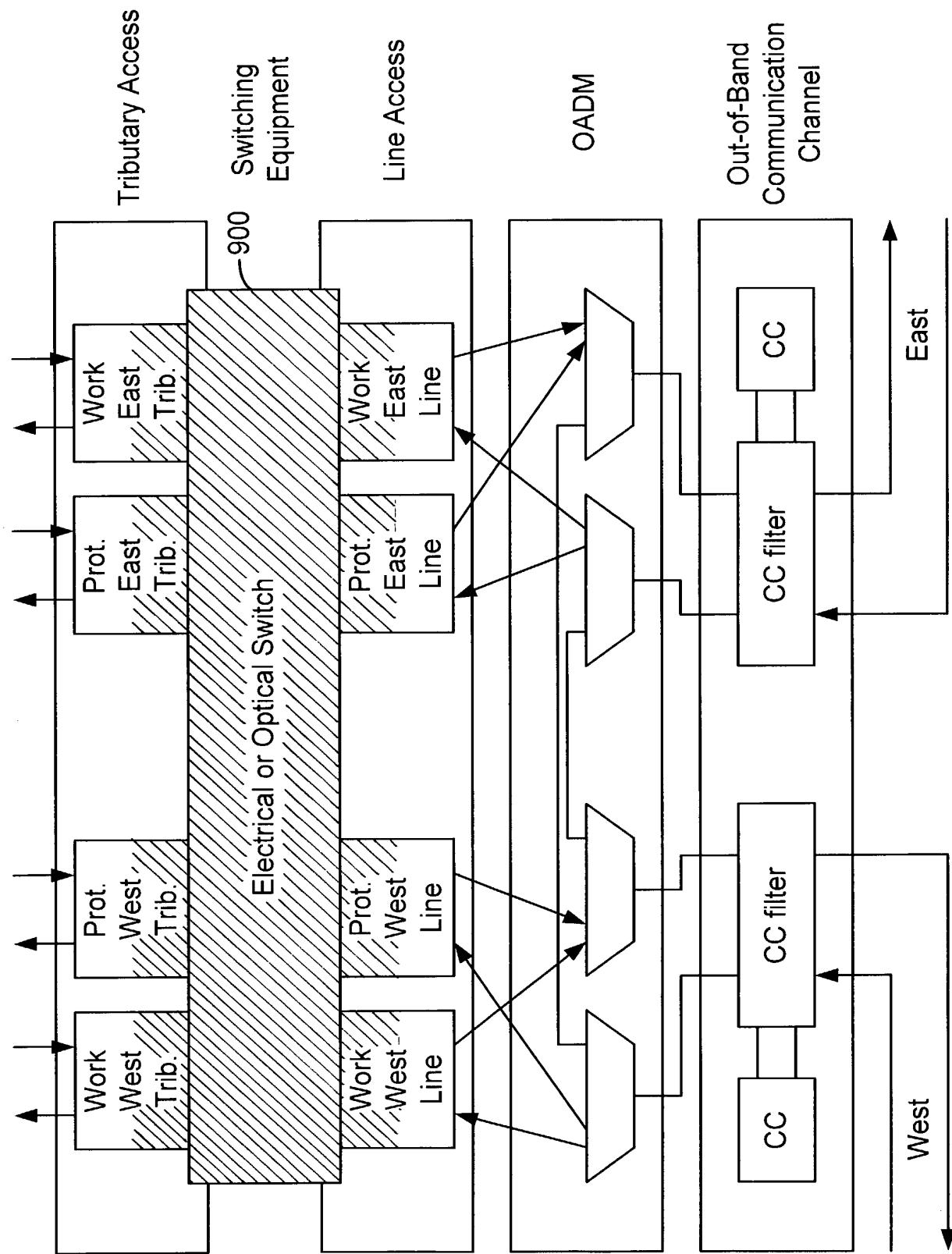
**FIG. 6B.**

Con request	Source node id	Dest node id	Wavelength	Failure type	Priority
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**FIG. 7.**

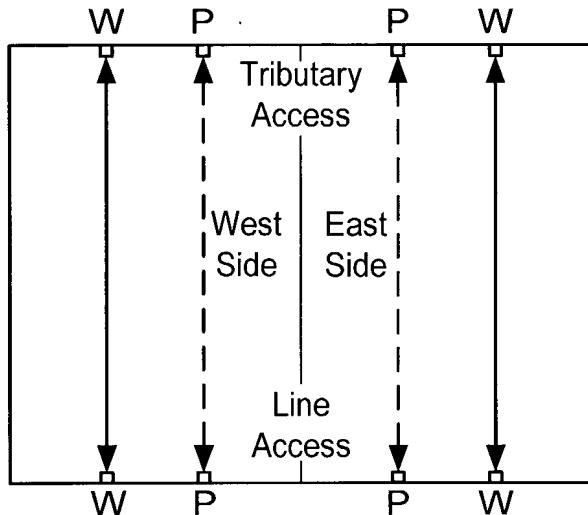
← 800

**FIG. 8.**

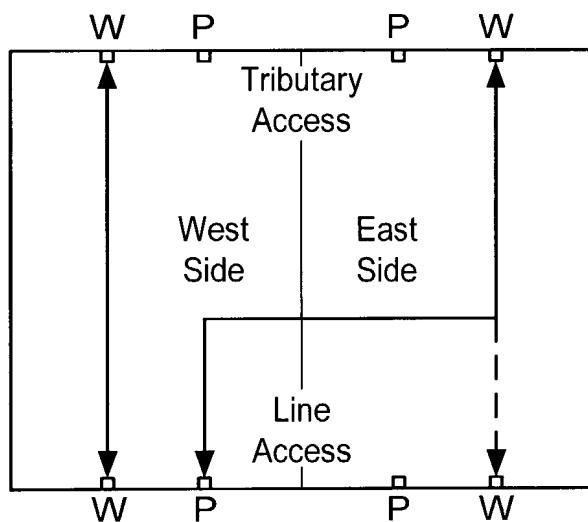


**FIG. 9.**

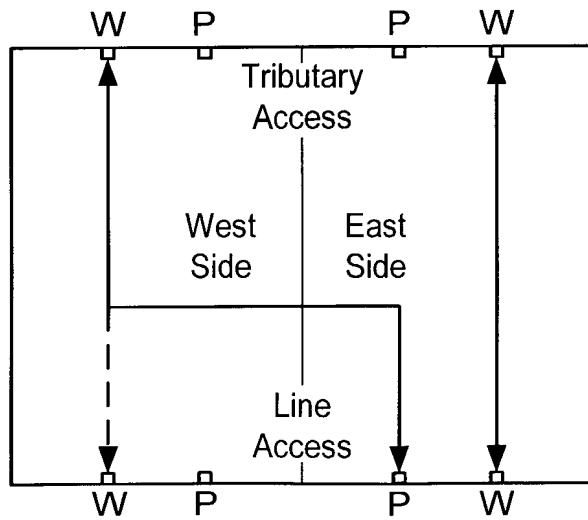
**FIG. 10.**



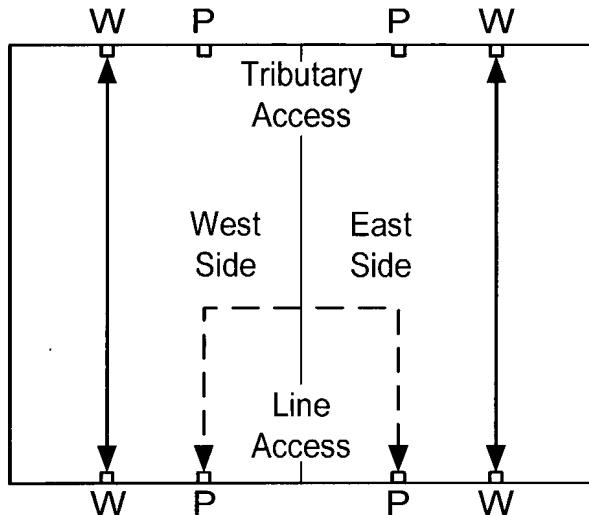
**FIG. 11.**



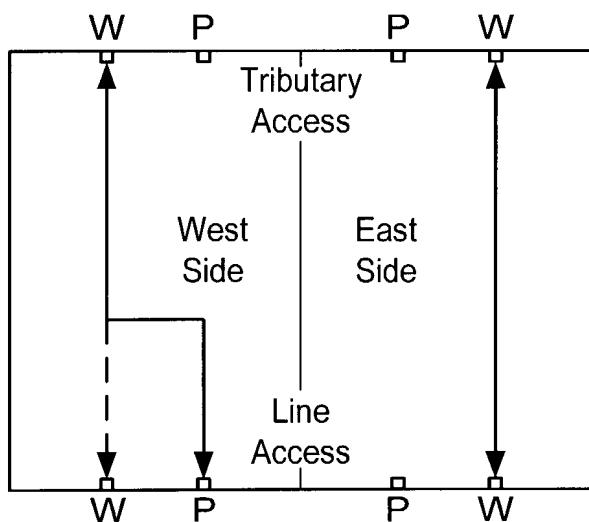
**FIG. 12.**

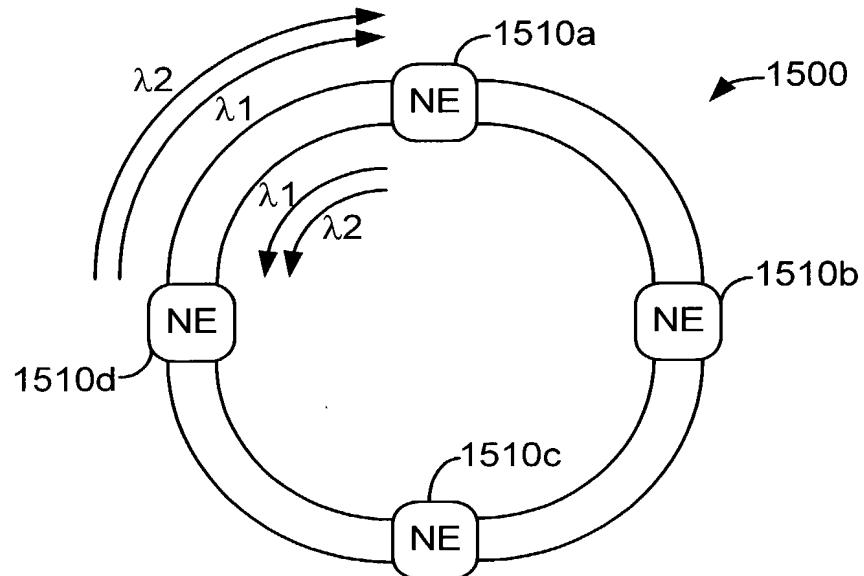
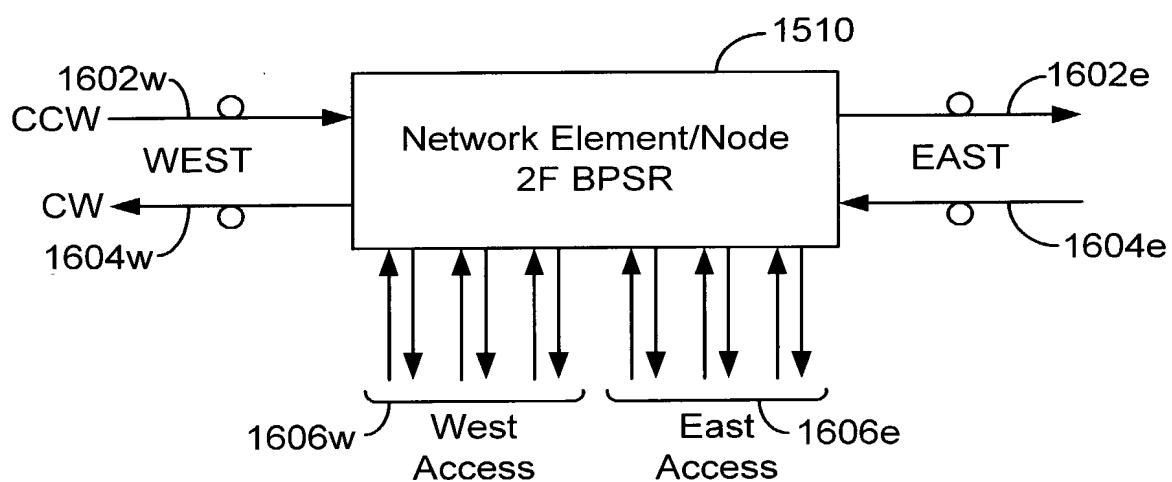


**FIG. 13.**



**FIG. 14.**



**FIG. 15.****FIG. 16.**

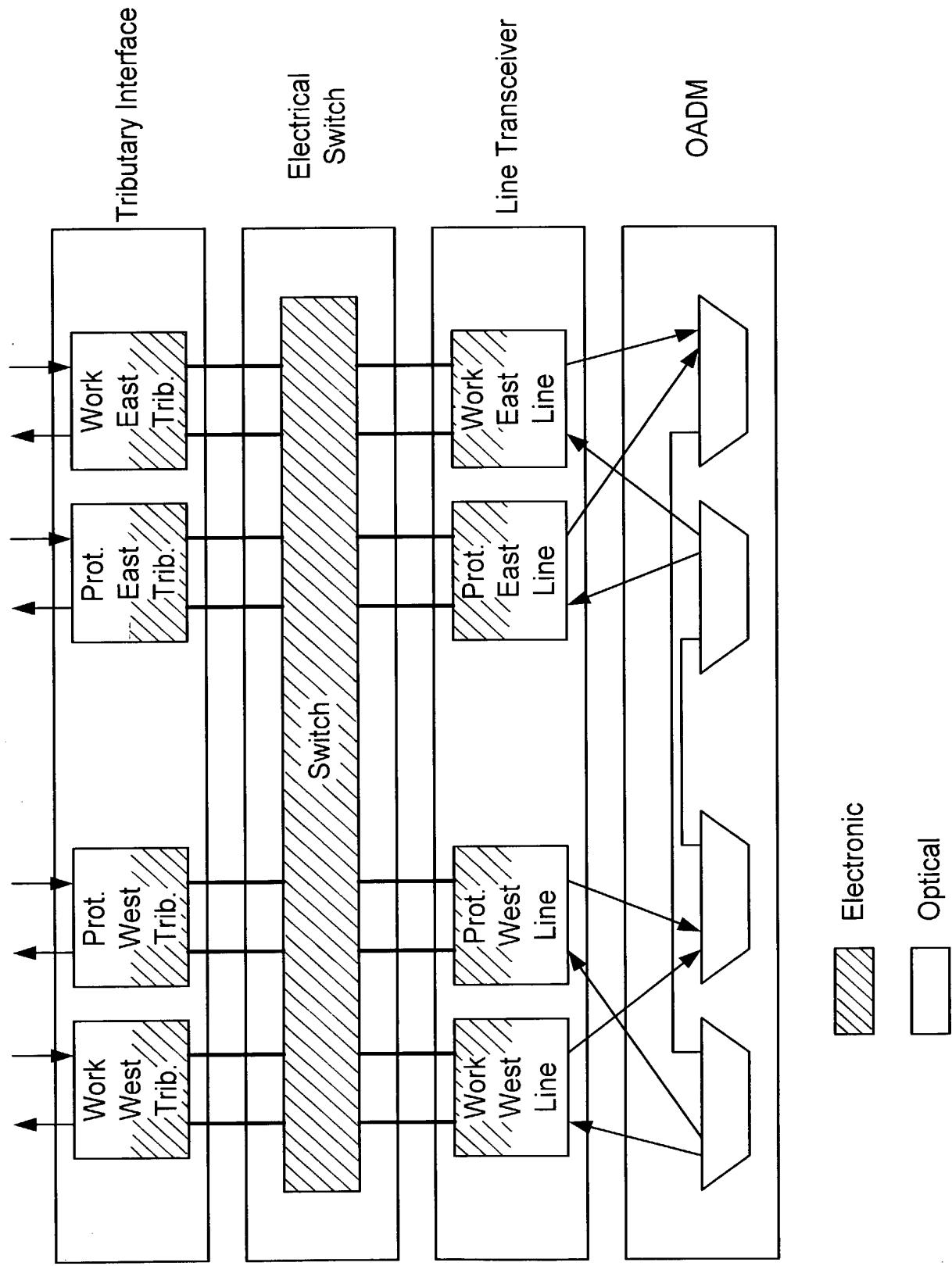


FIG. 17.

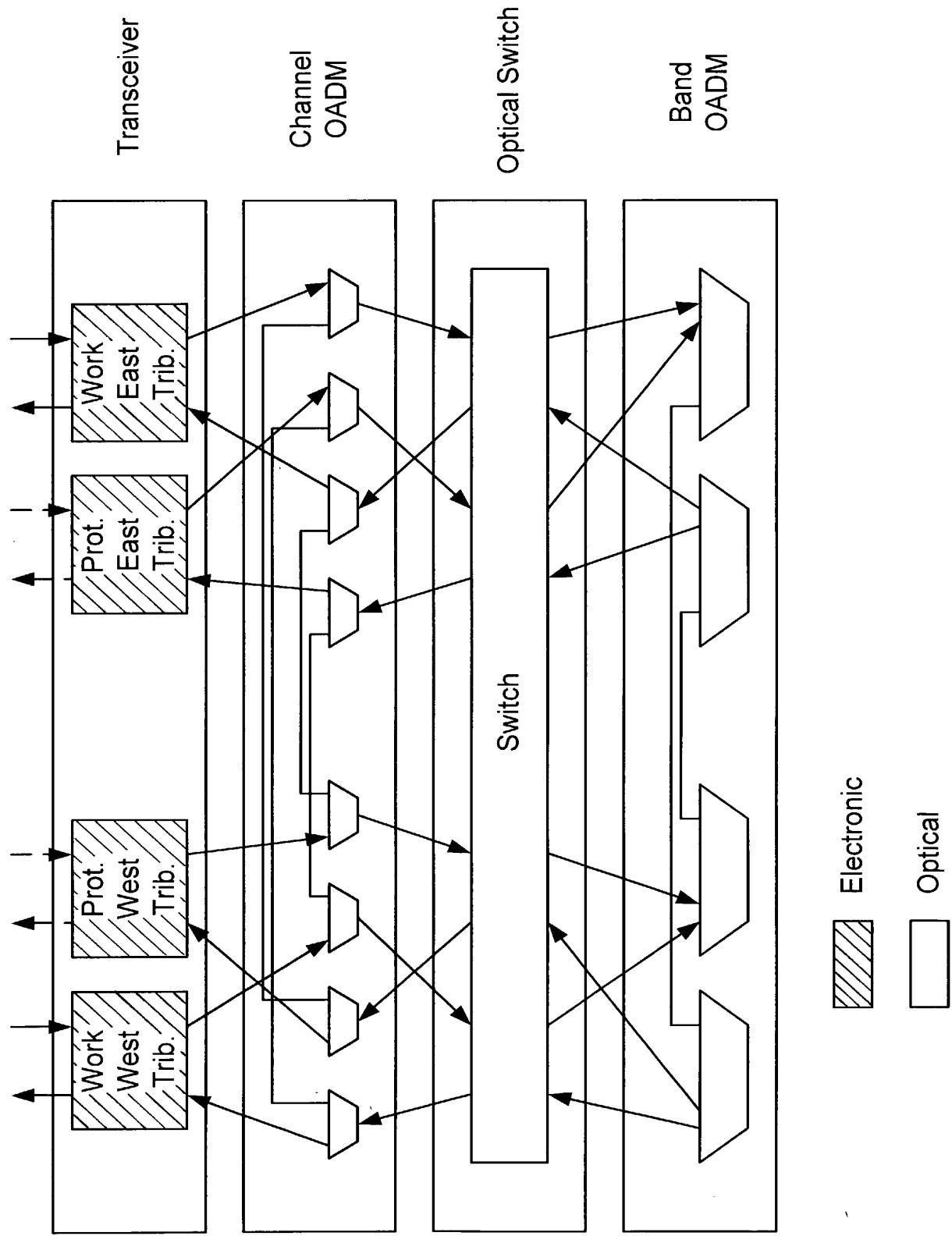
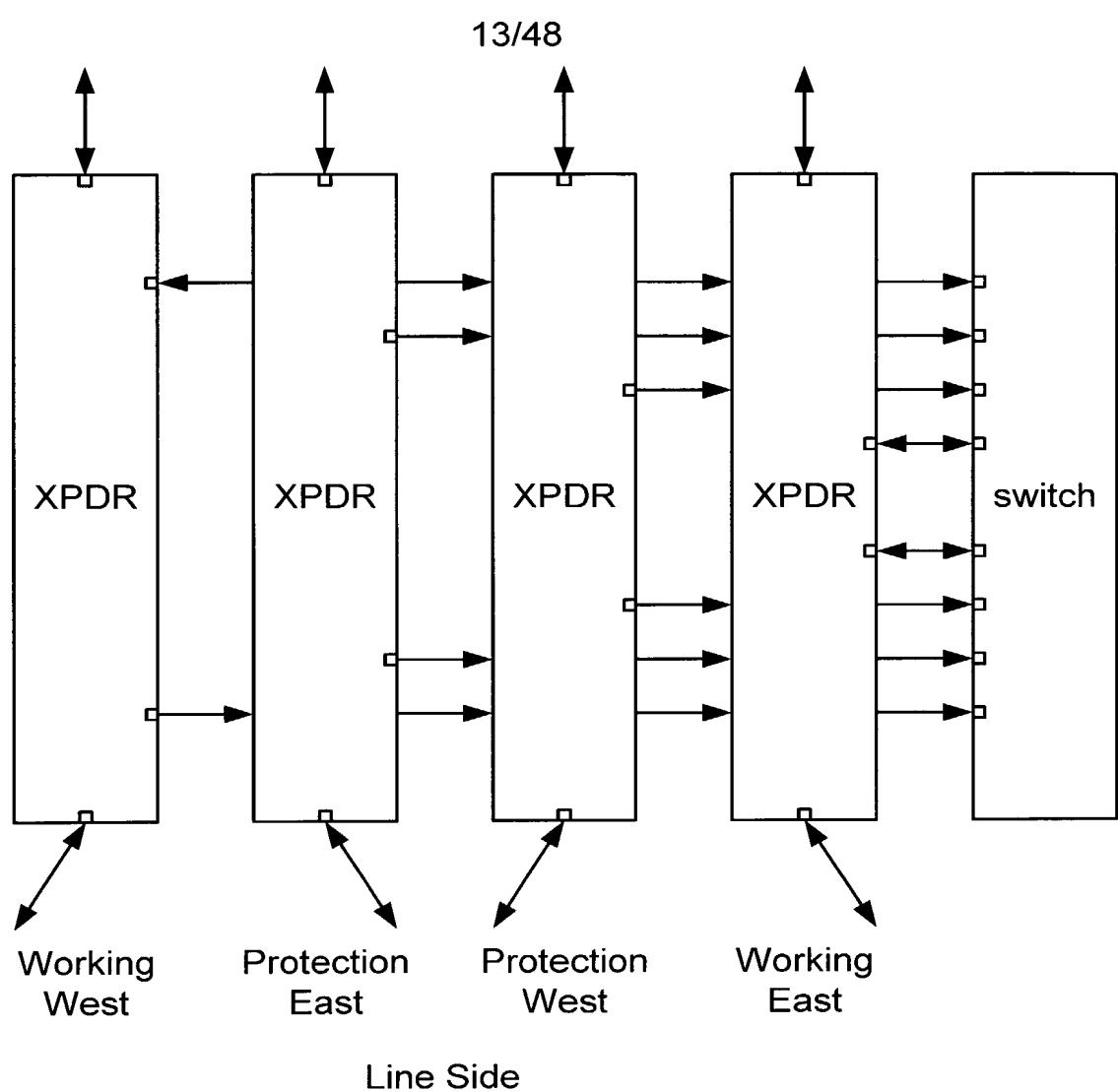
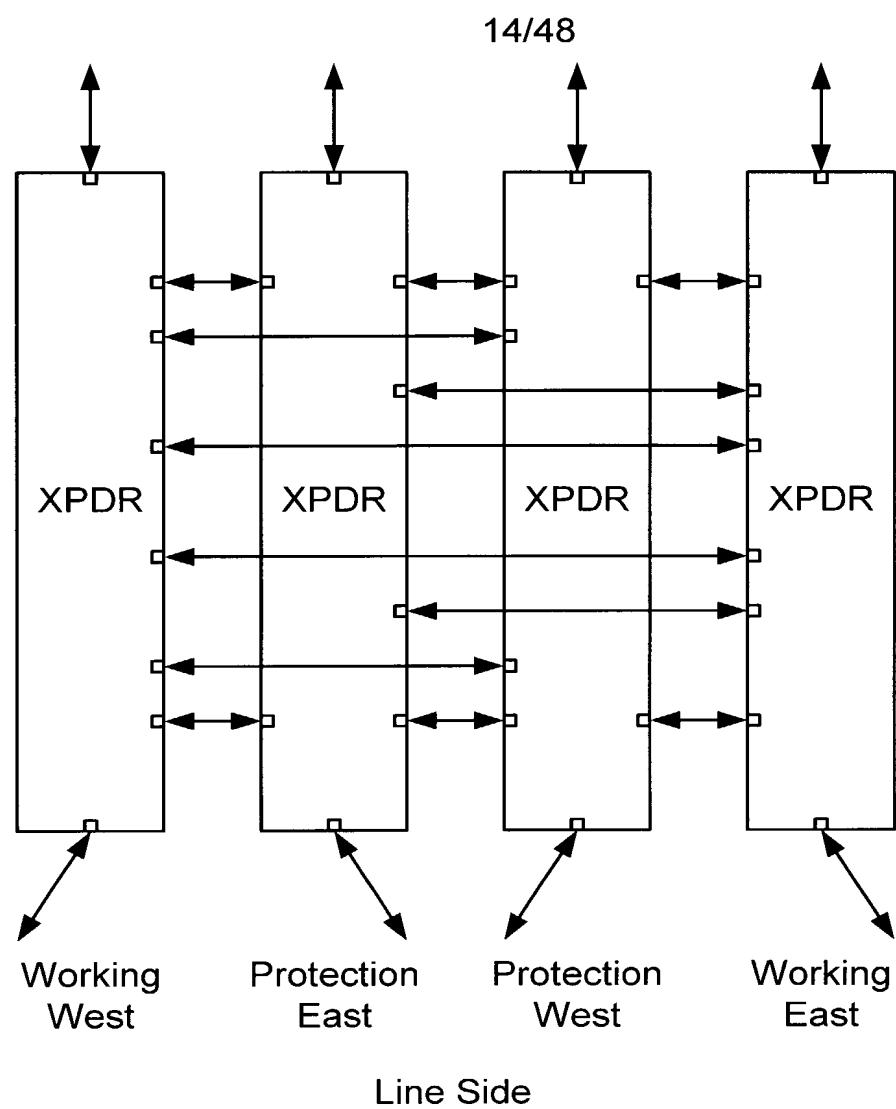


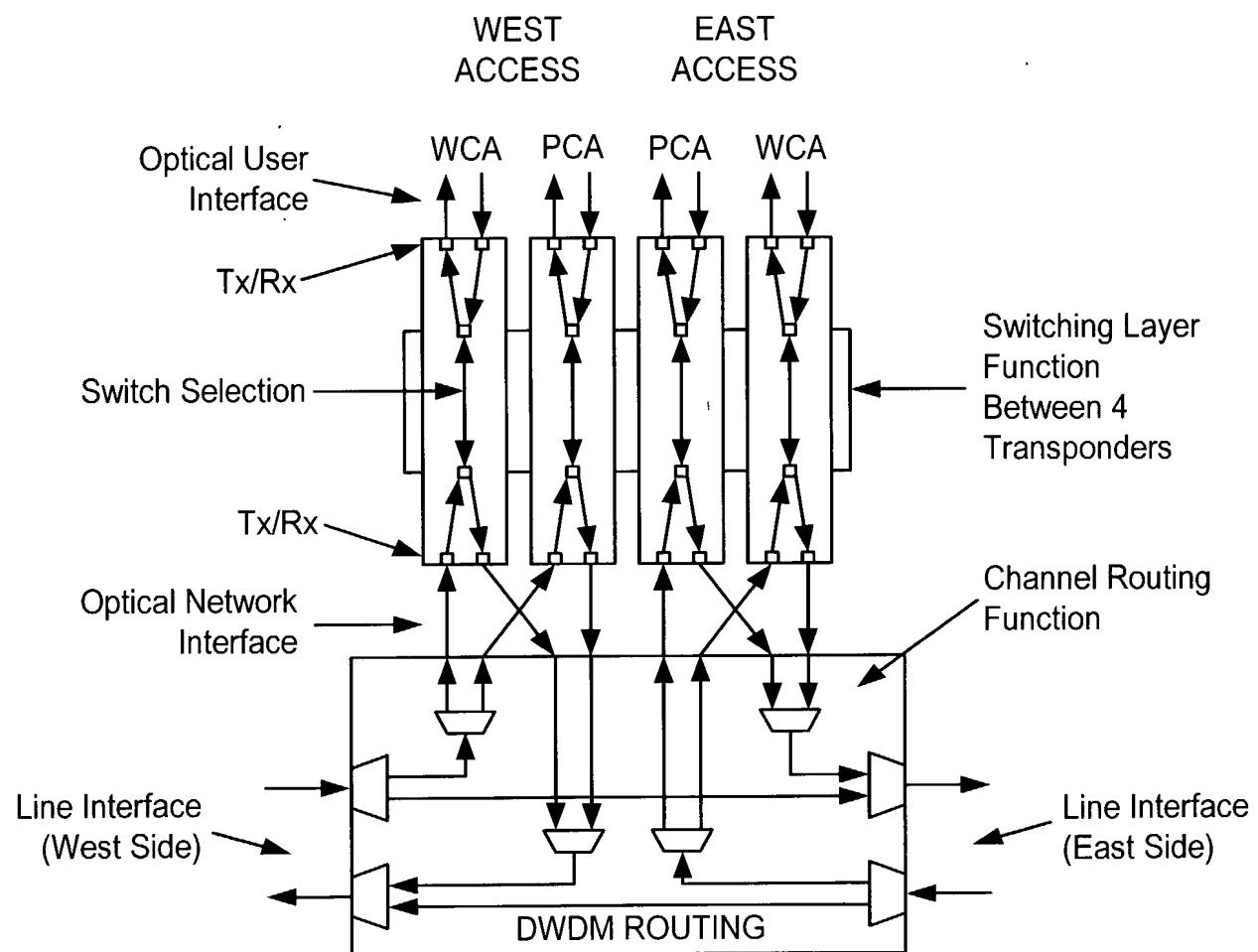
FIG. 18.

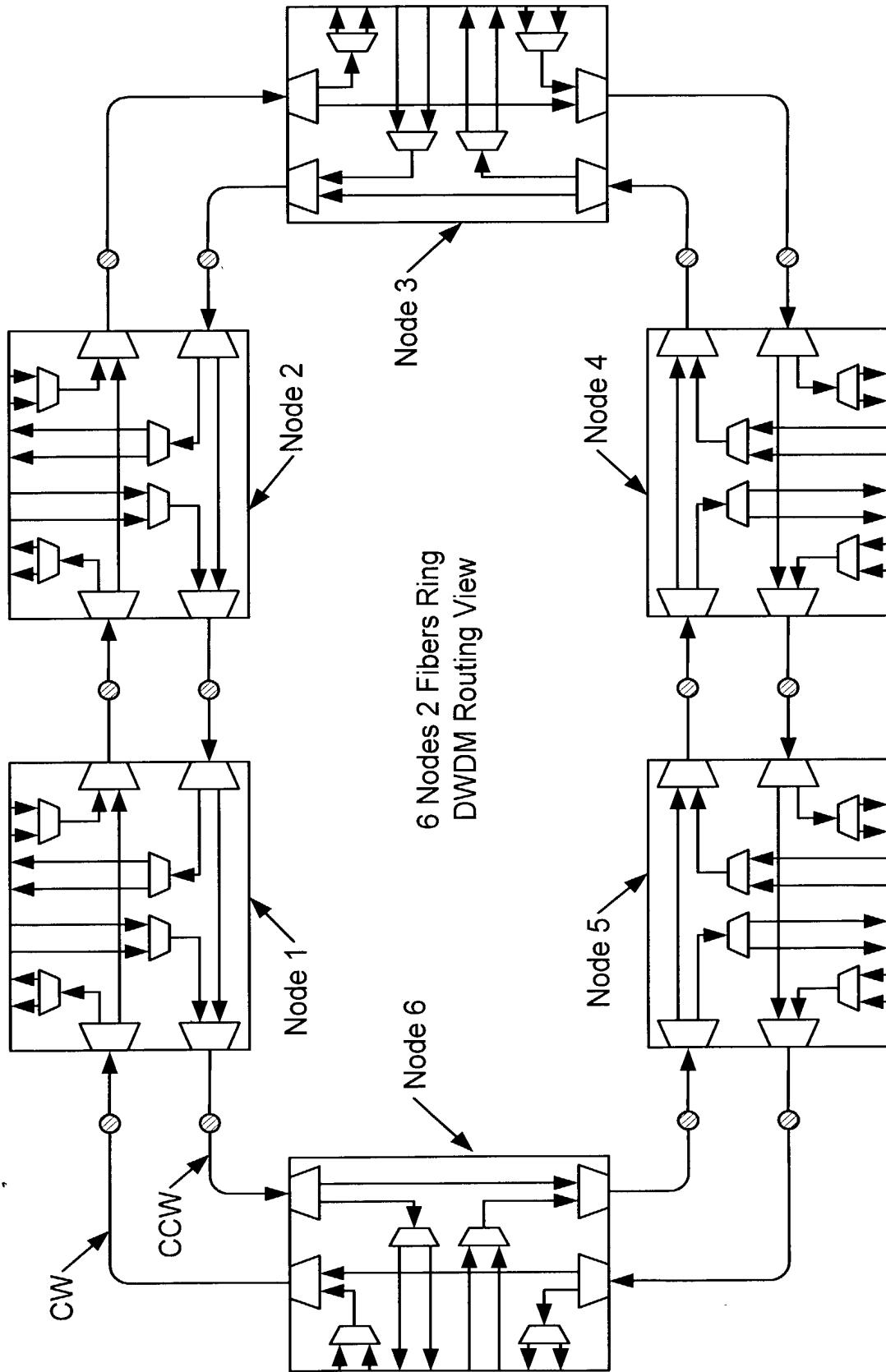


**FIG. 19.**



**FIG. 20.**

**FIG. 21.**



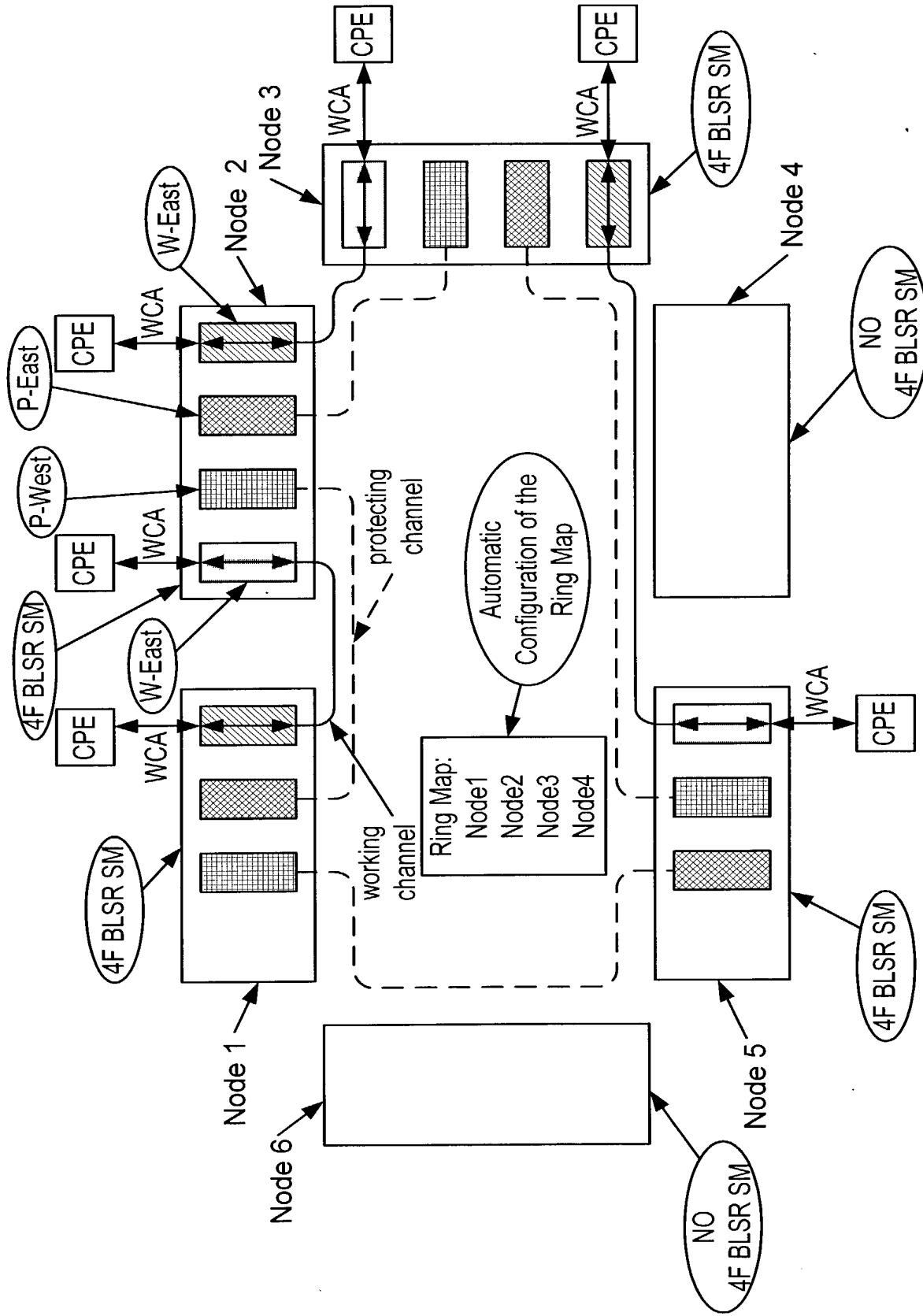


FIG. 23.

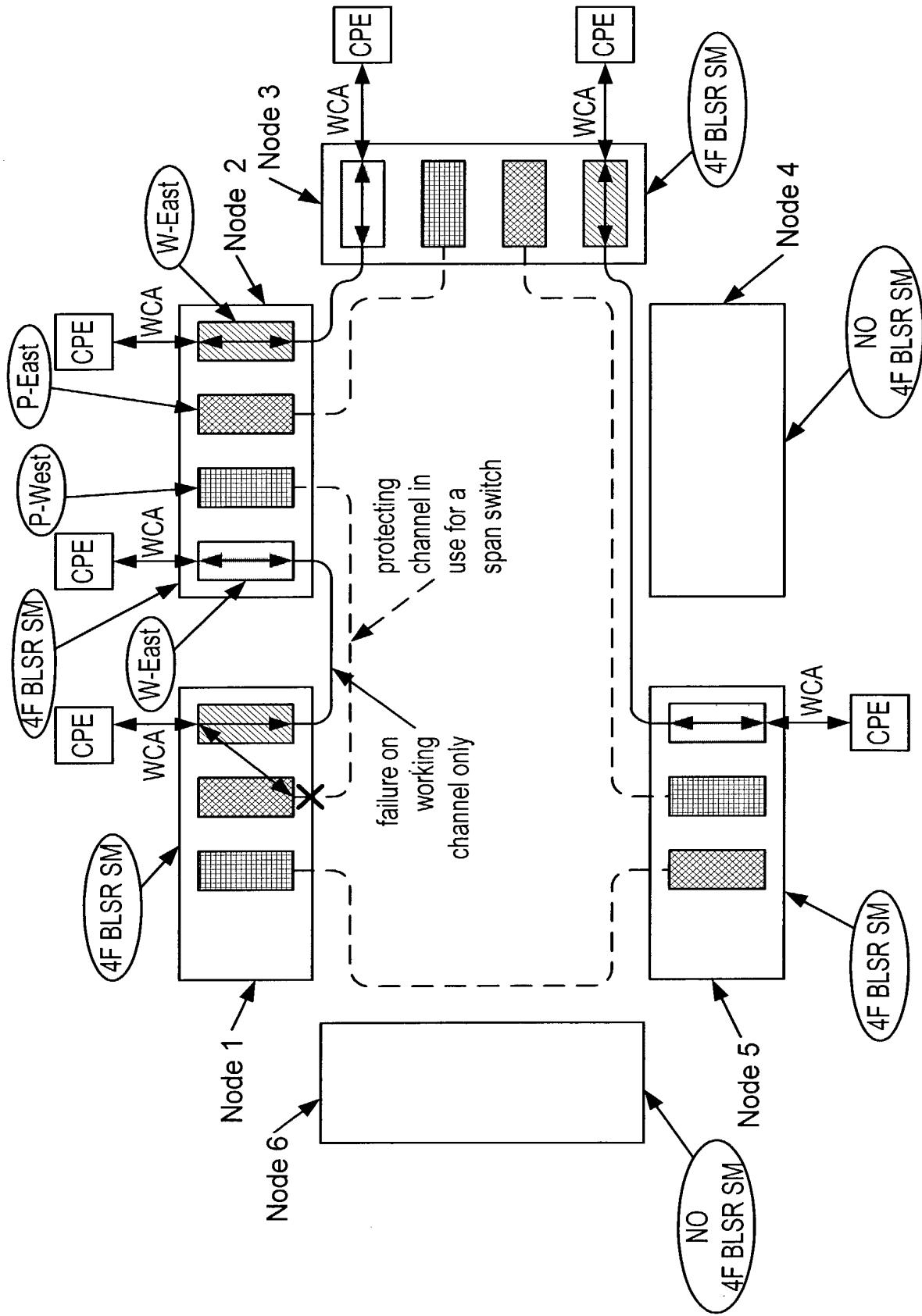


FIG. 24.

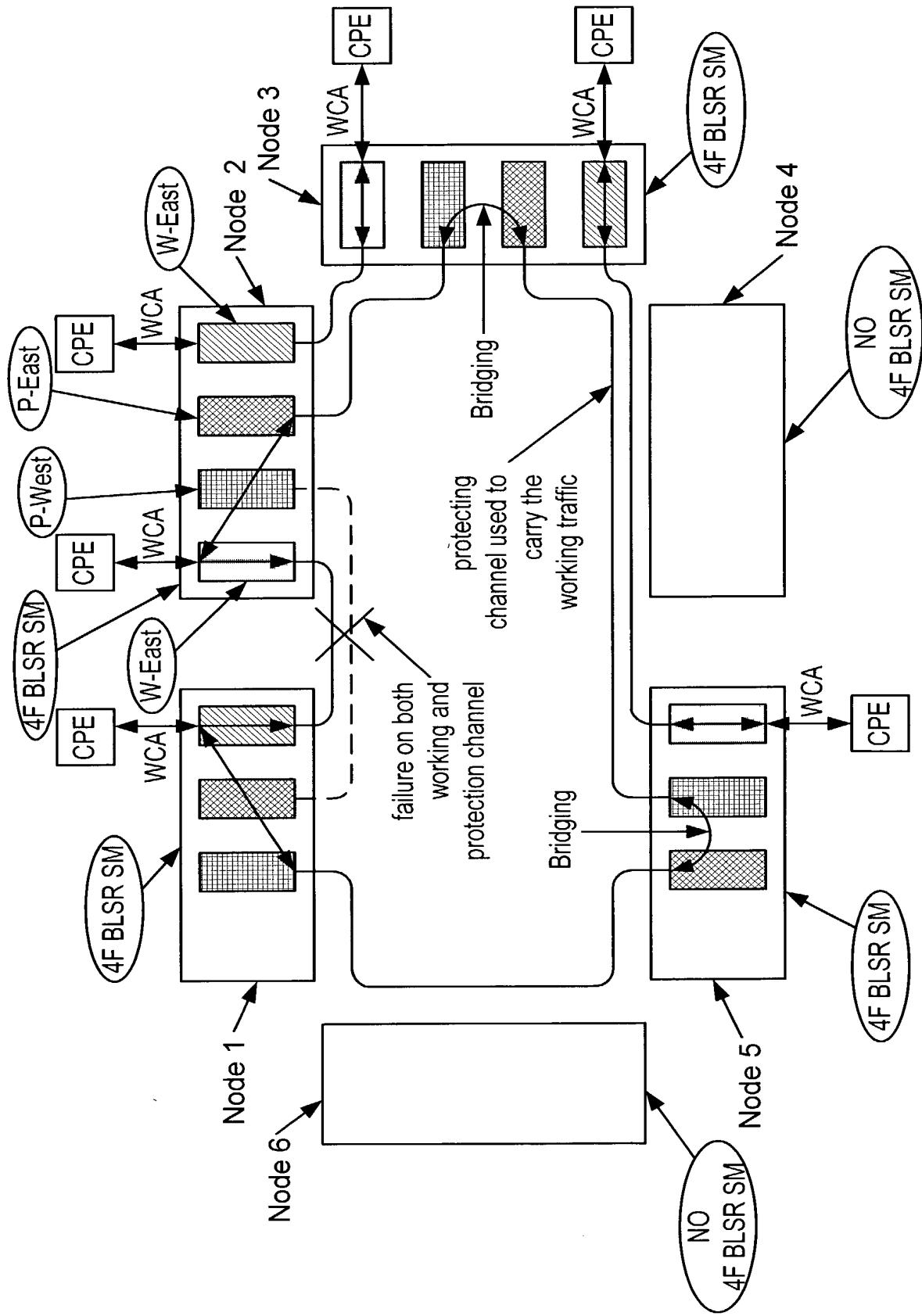


FIG. 25.

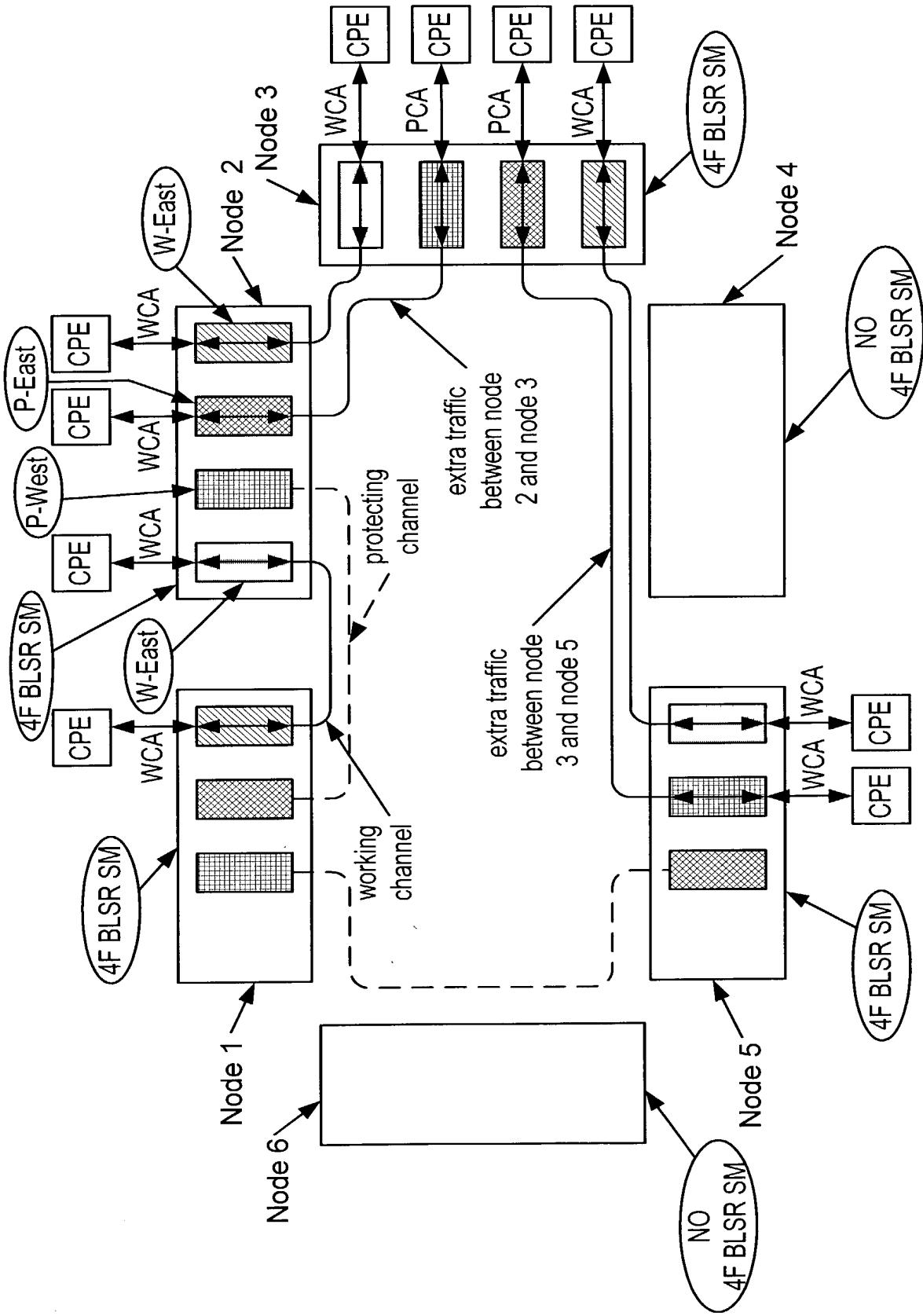


FIG. 26.

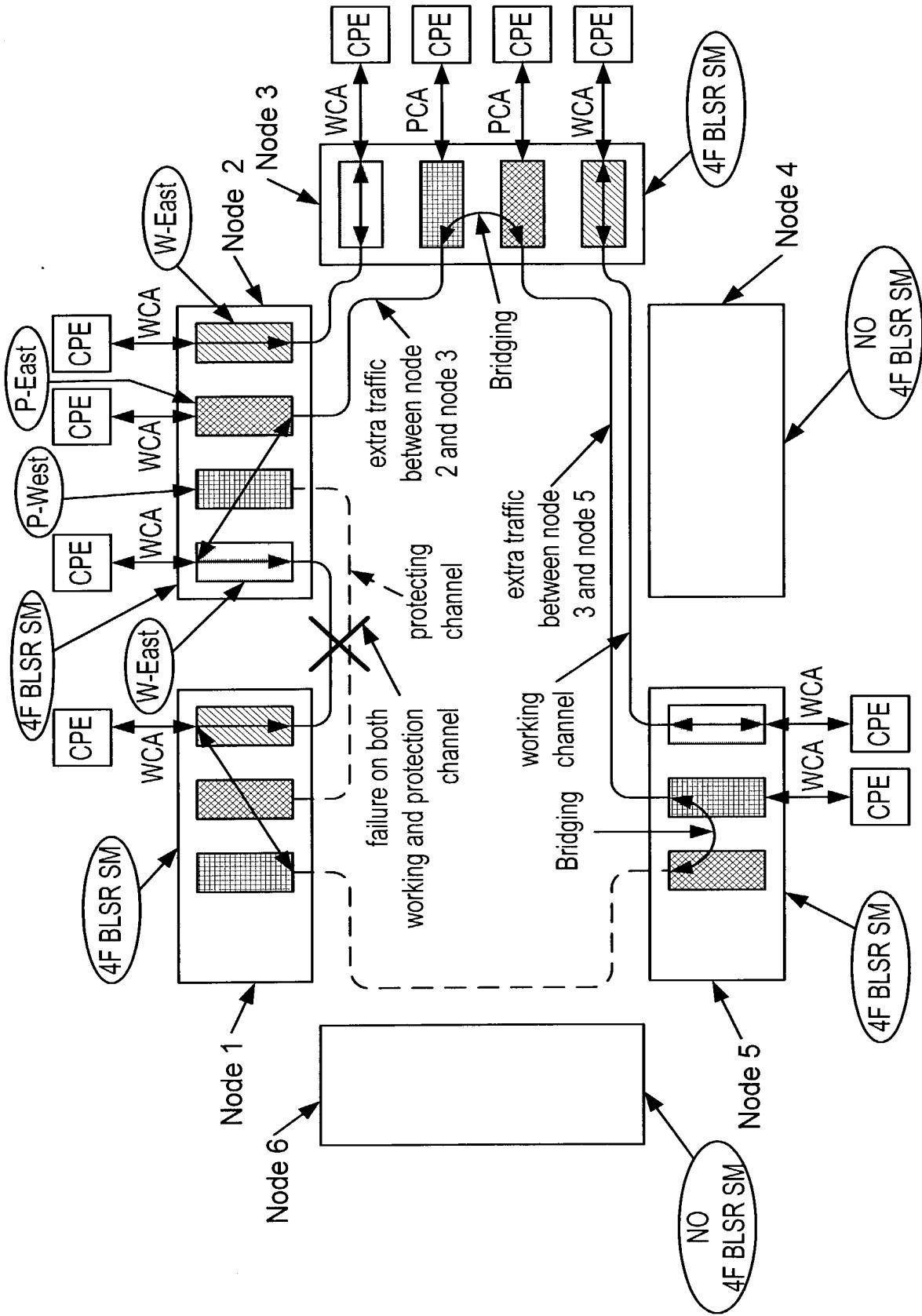


FIG. 27.

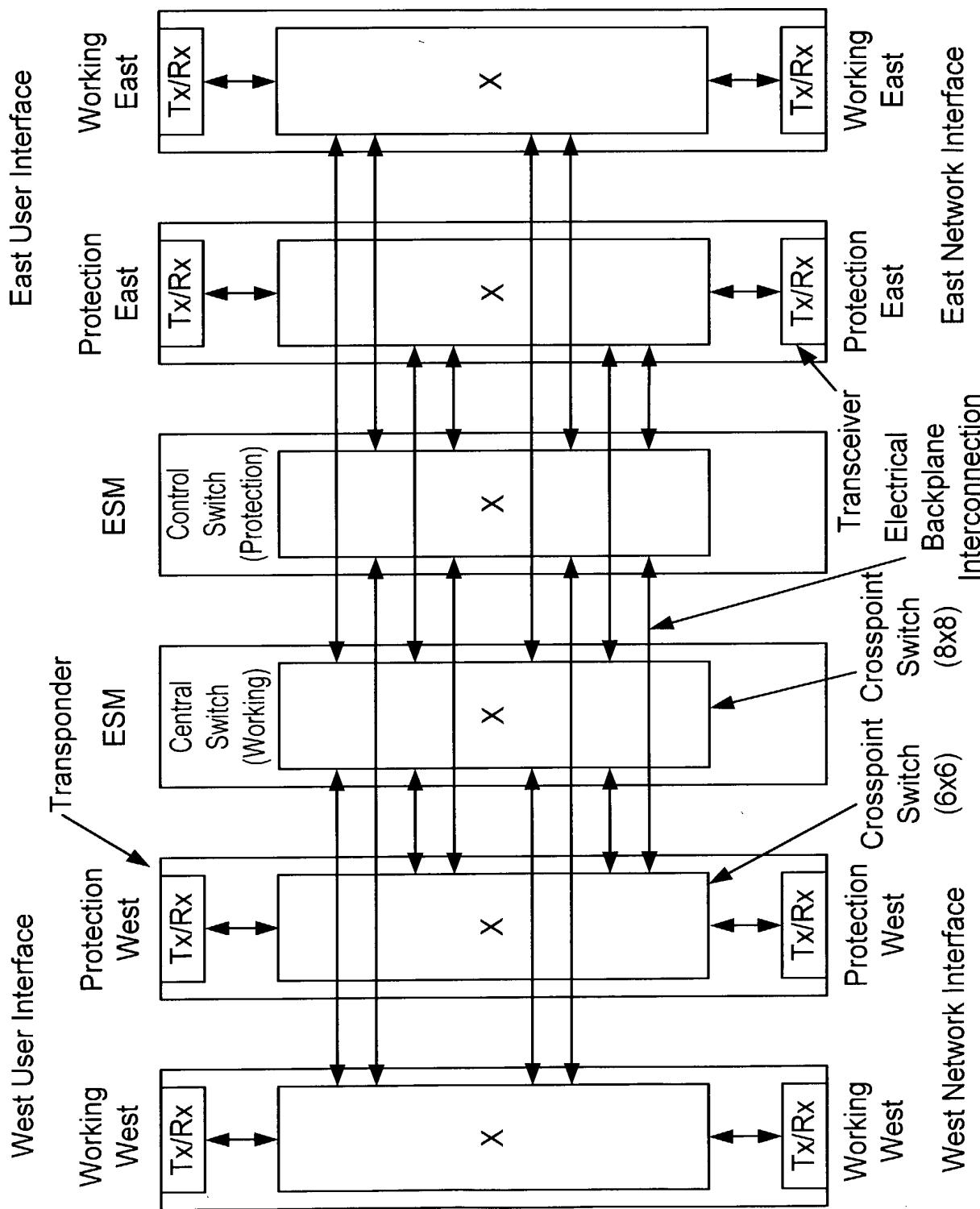


FIG. 28.

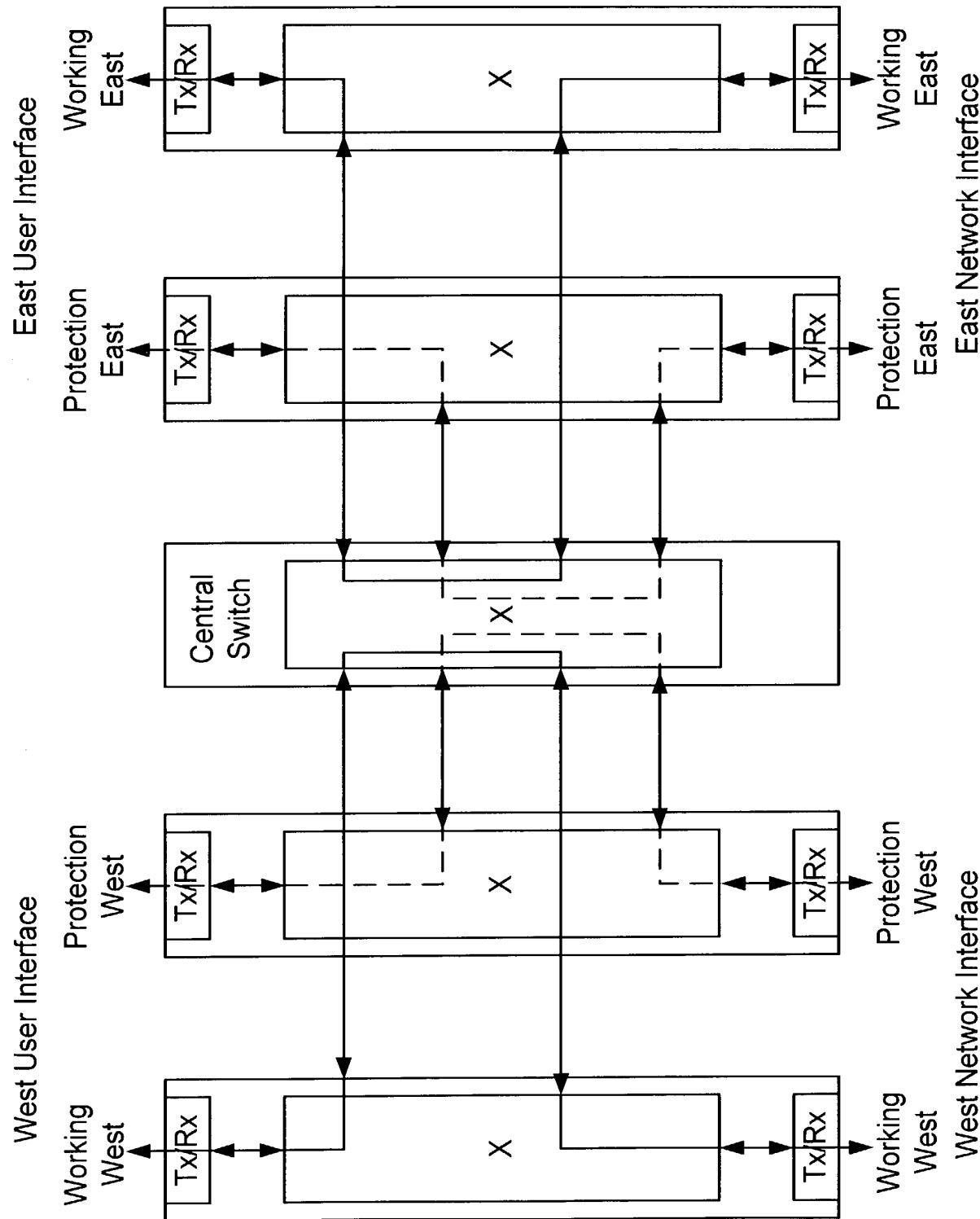


FIG. 29.

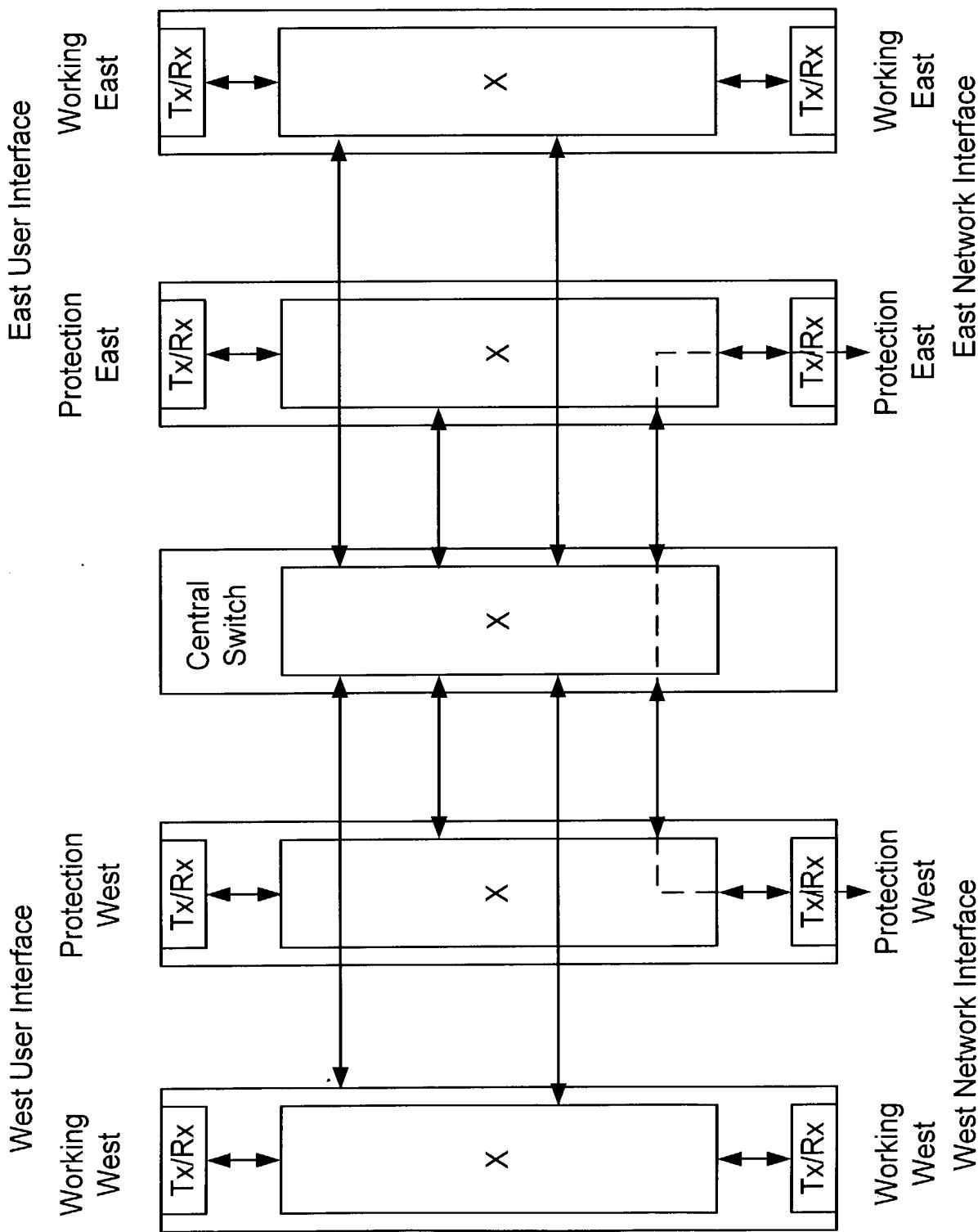


FIG. 30.

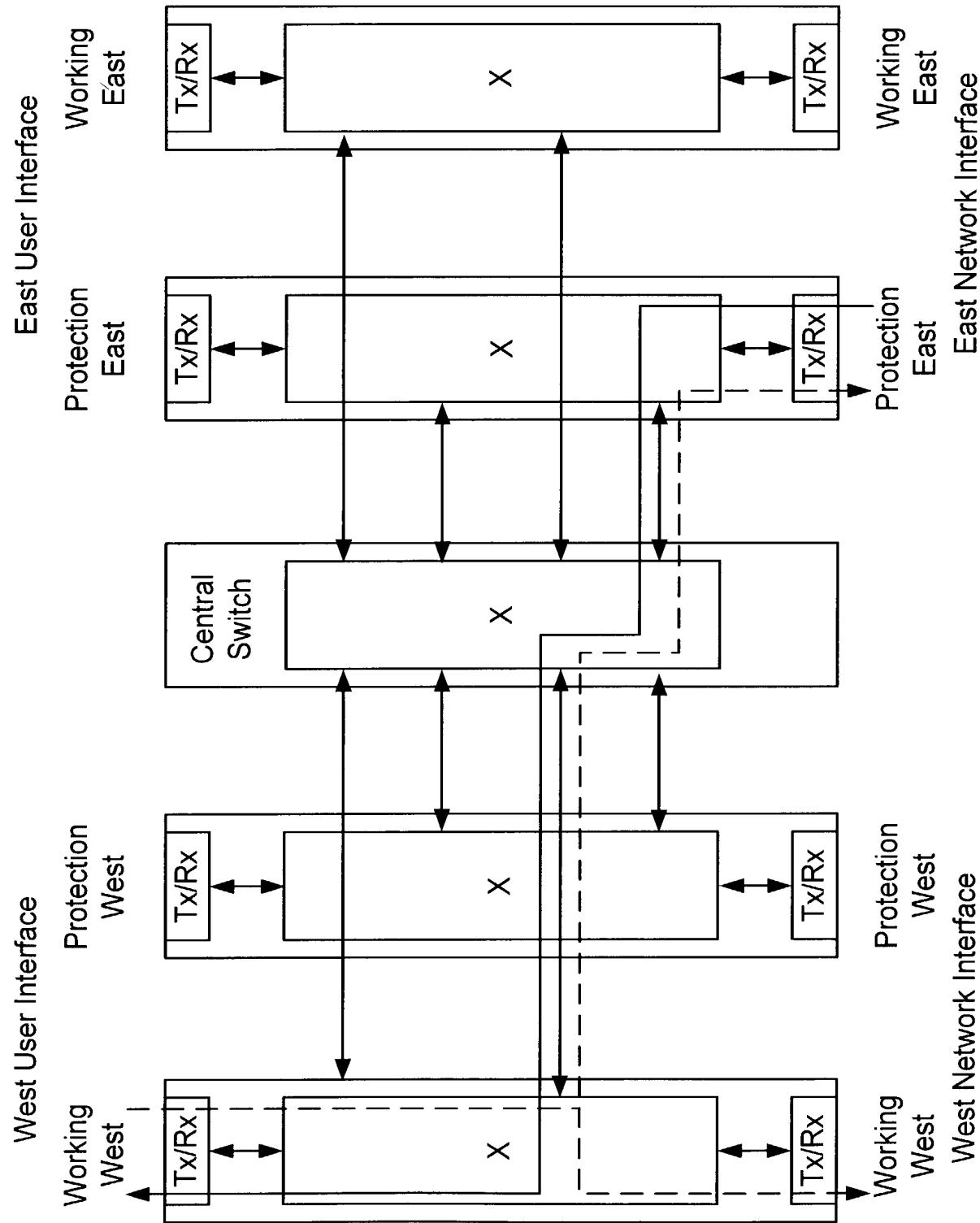


FIG. 31.

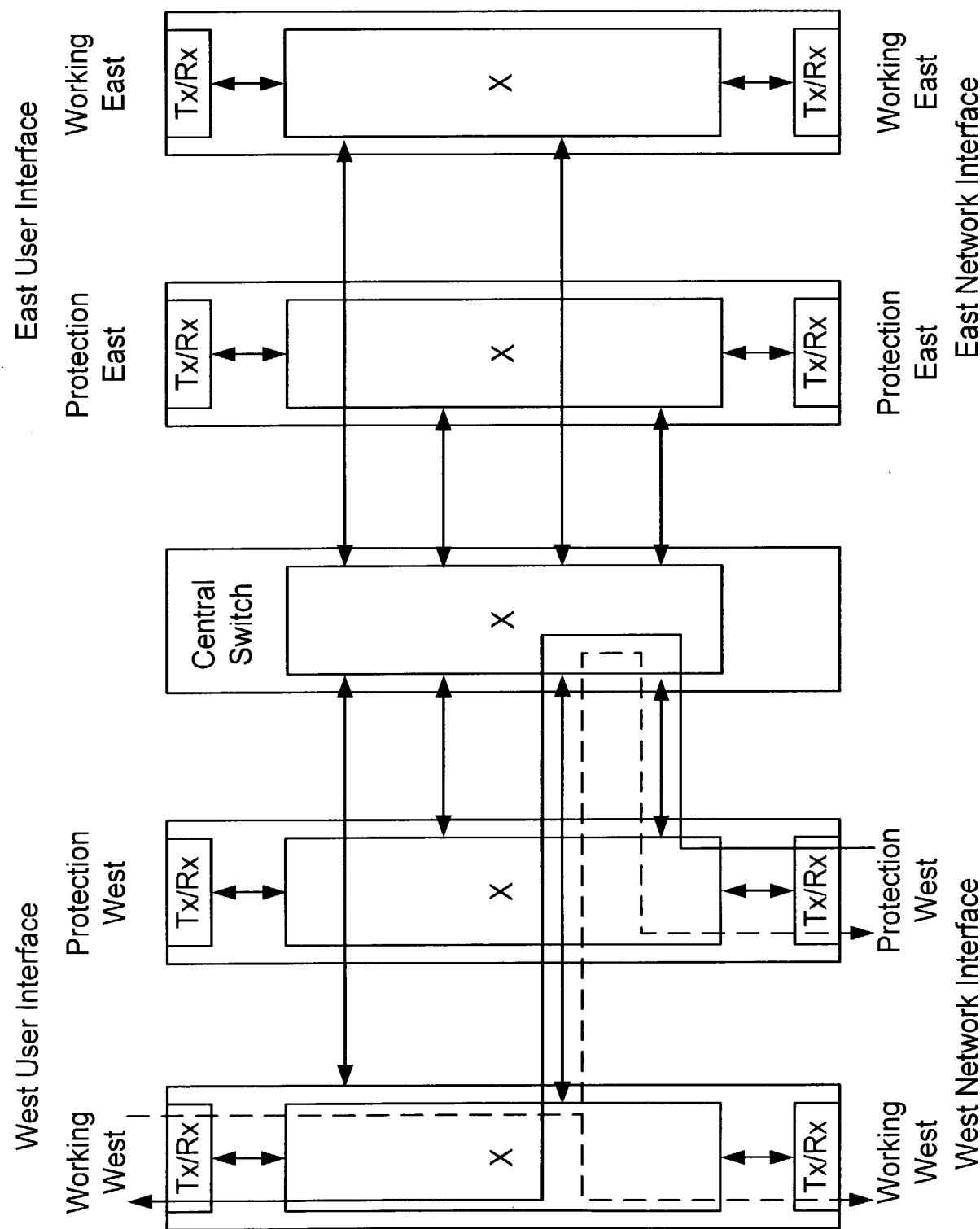


FIG. 32.

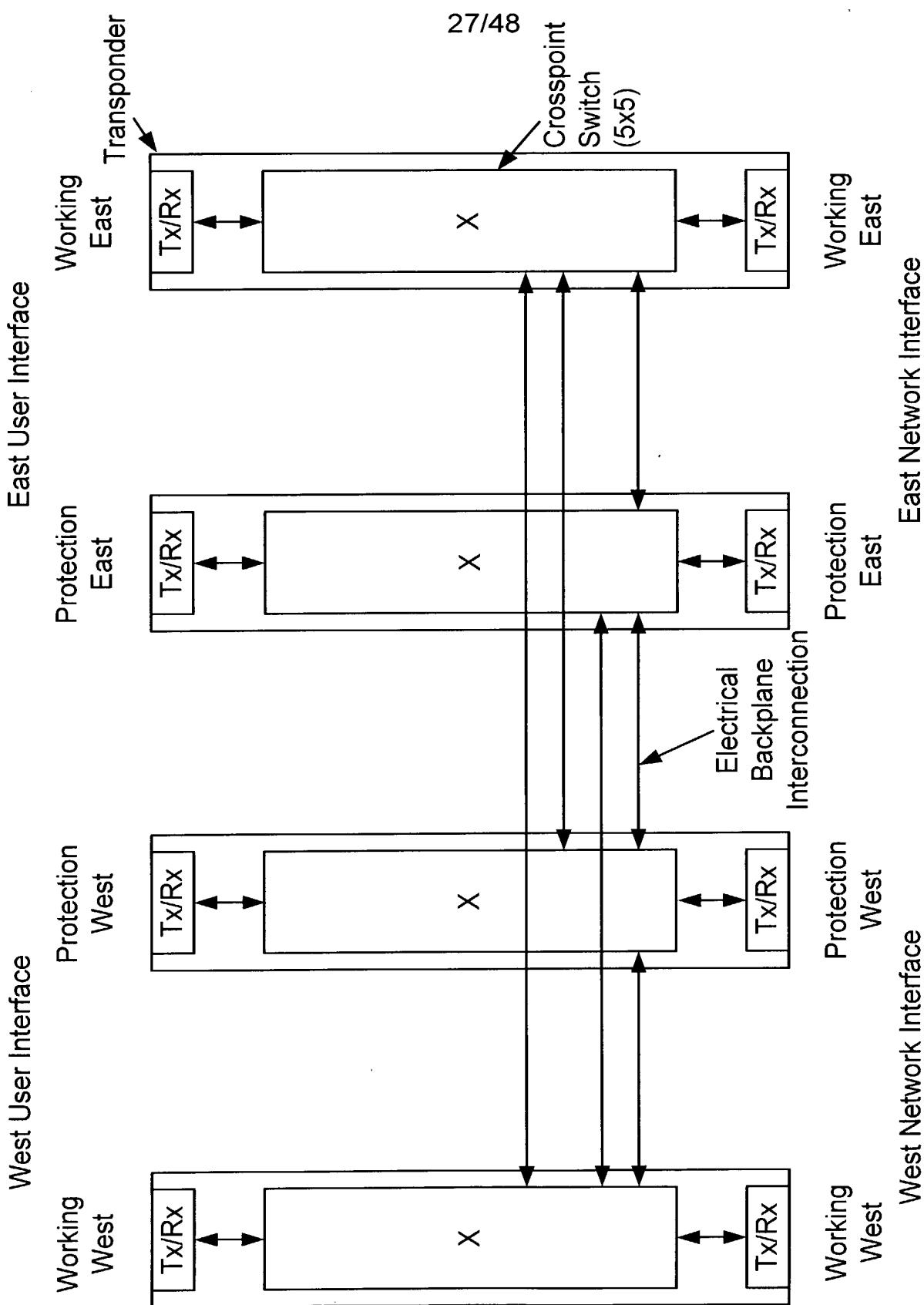


FIG. 33.

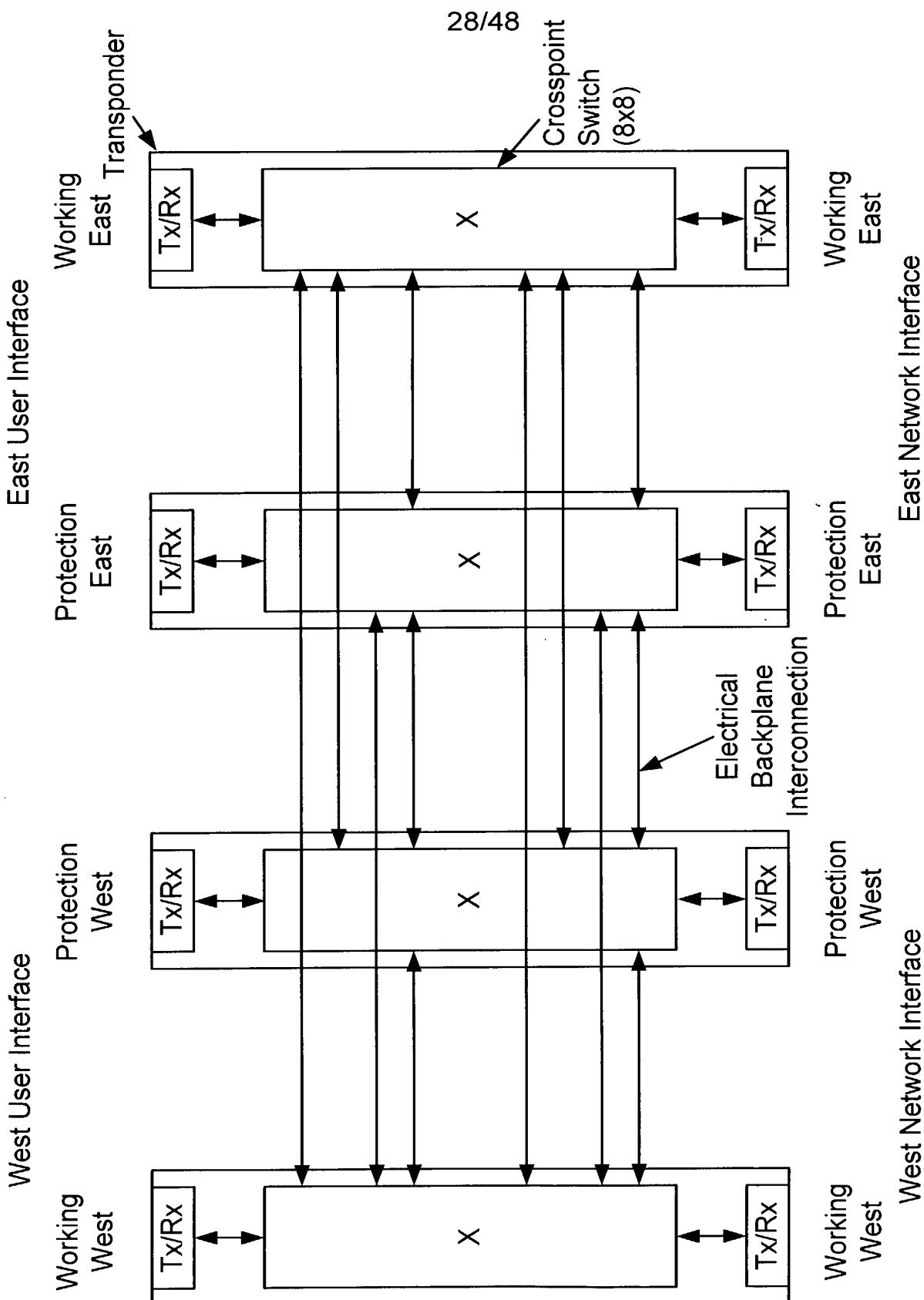


FIG. 34.

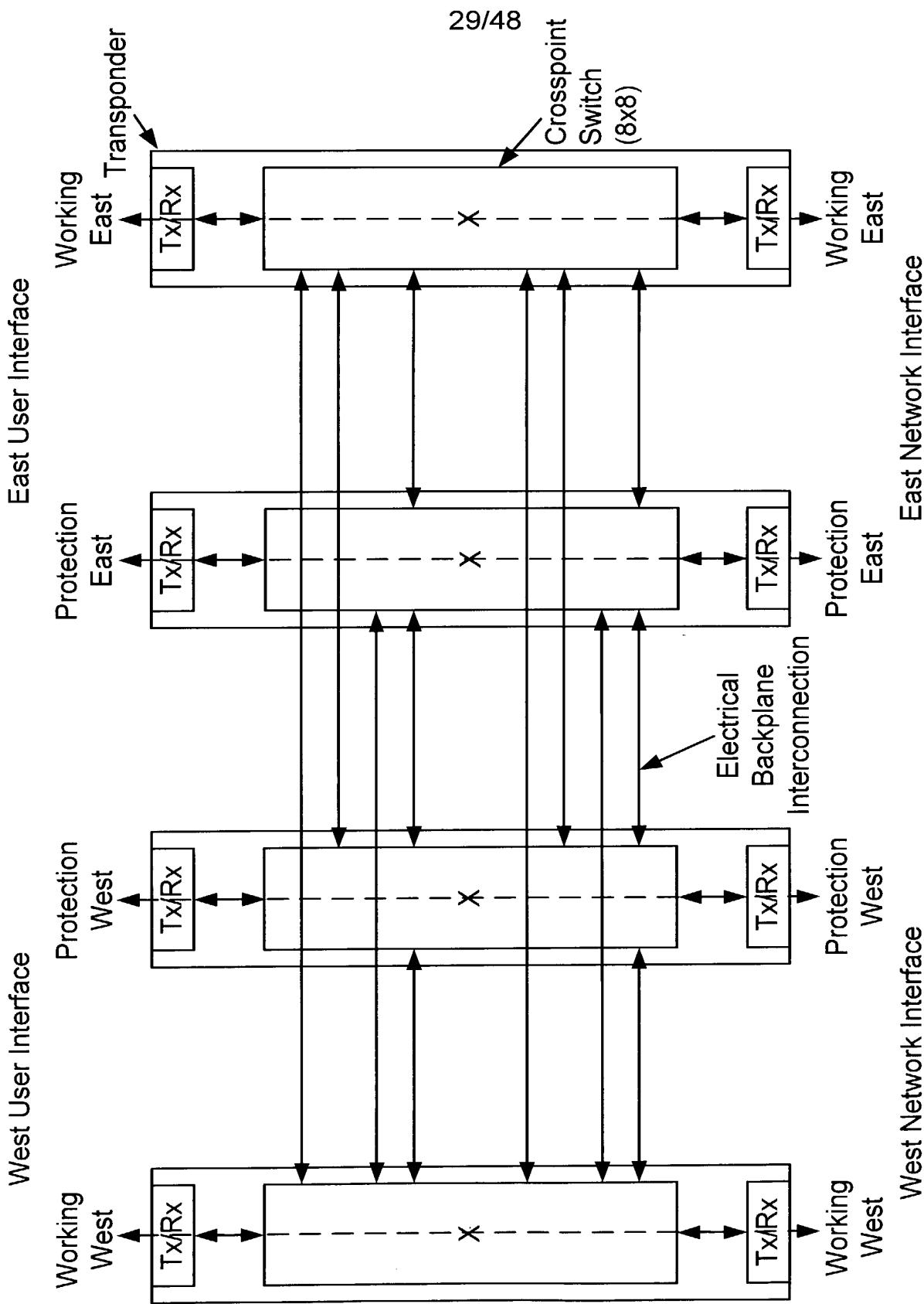


FIG. 35.

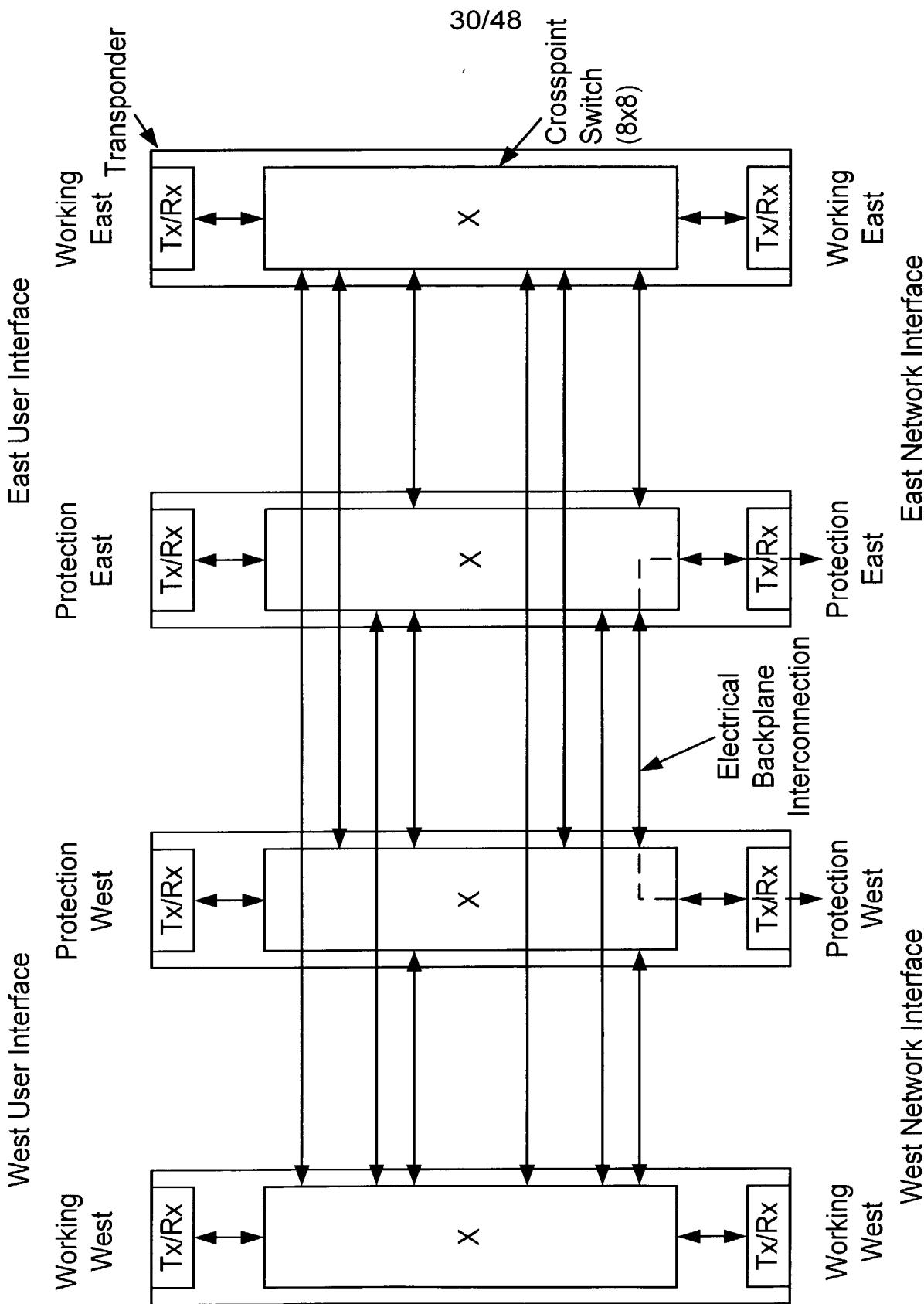


FIG. 36.

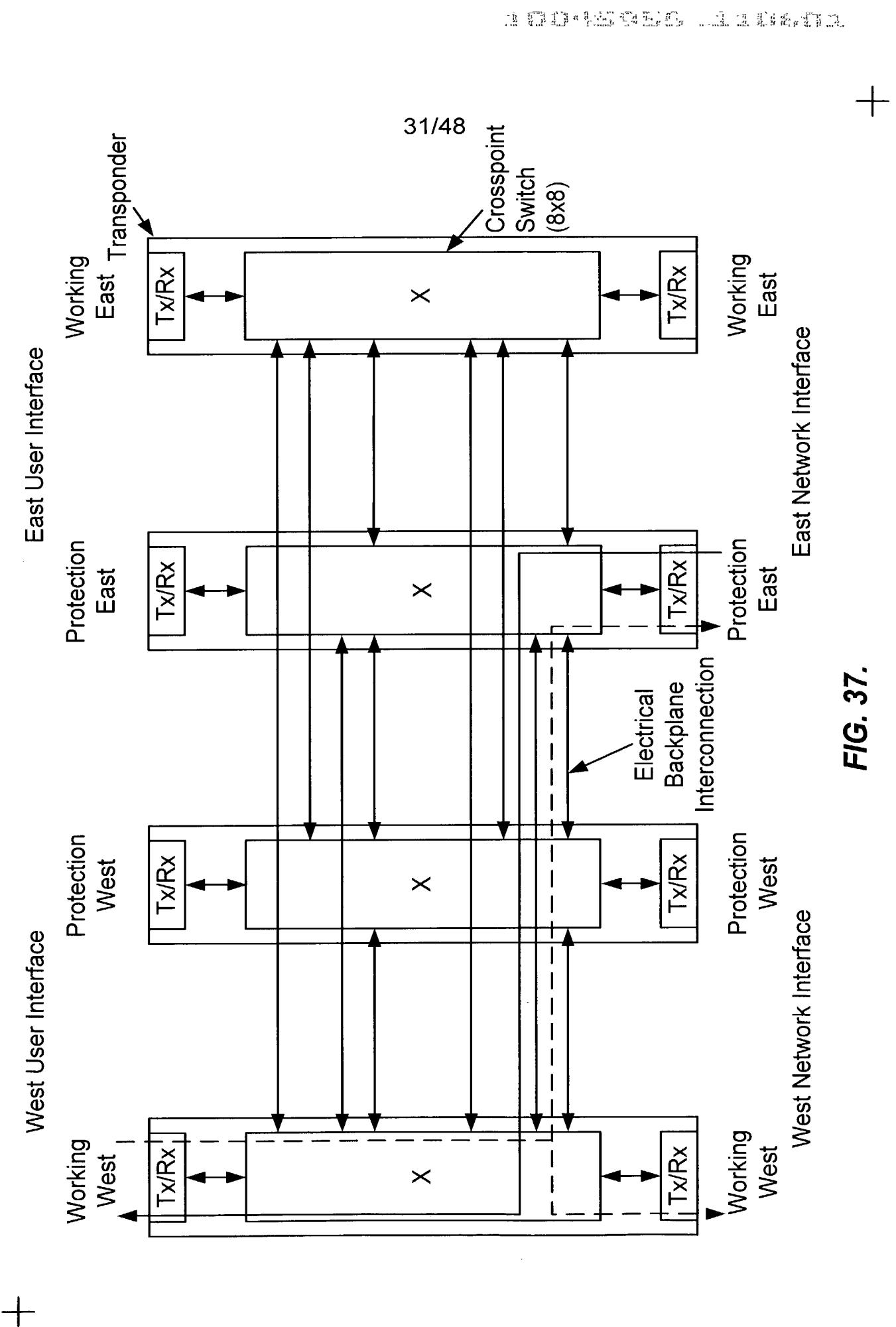


FIG. 37.

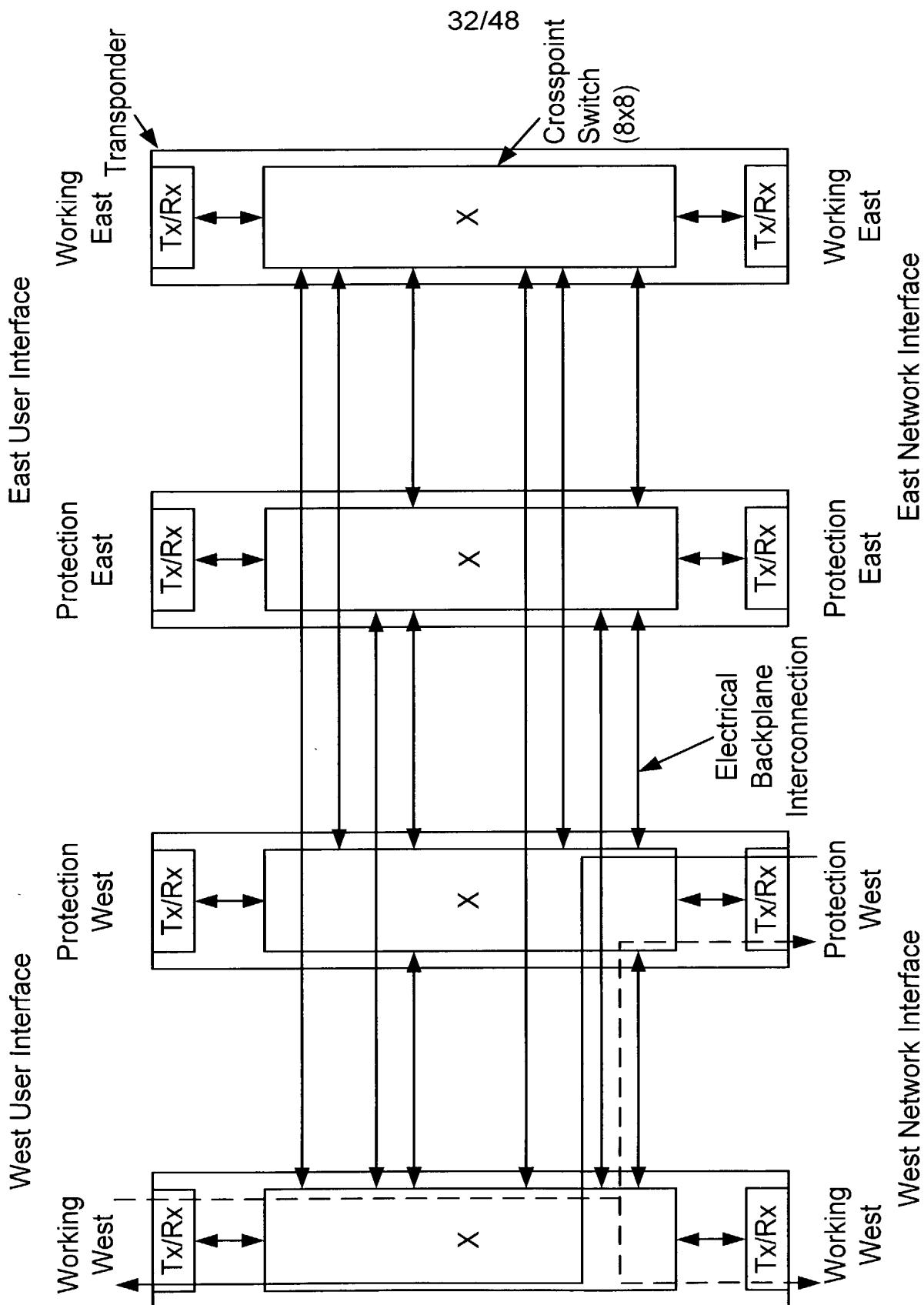
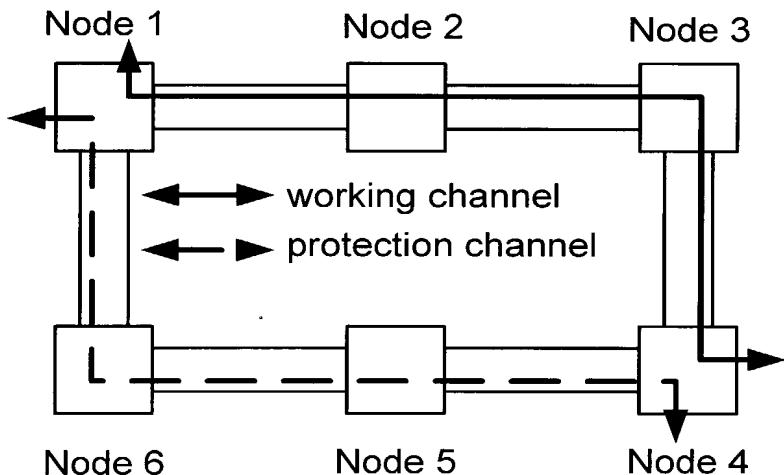
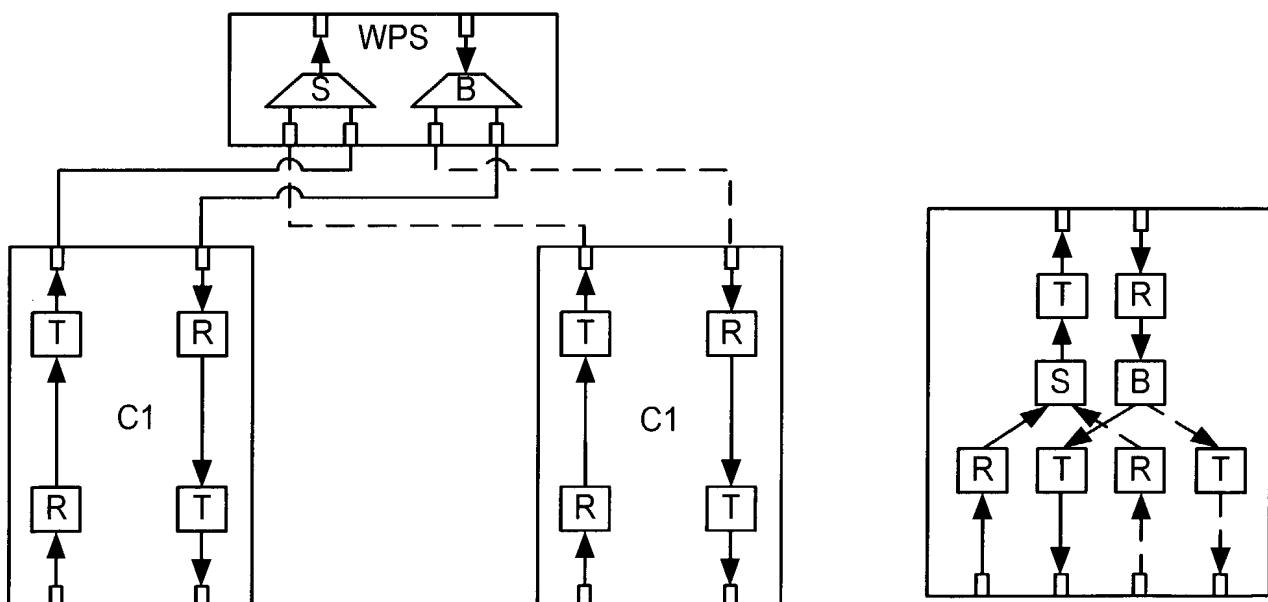
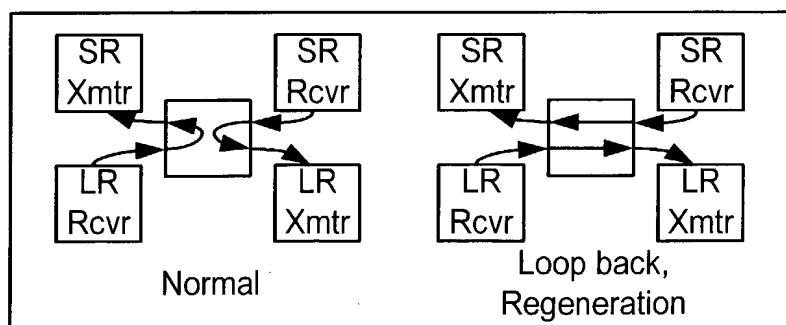
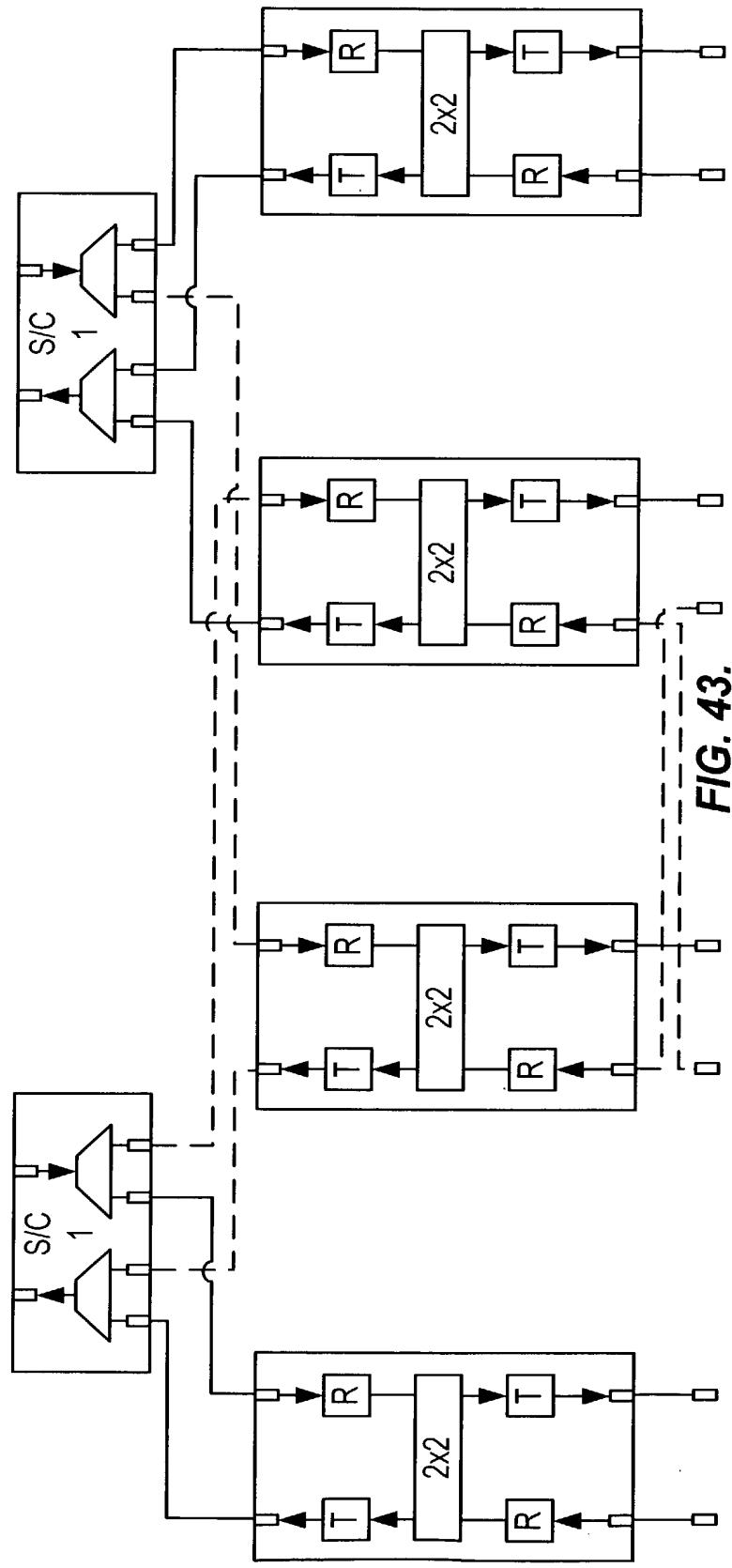
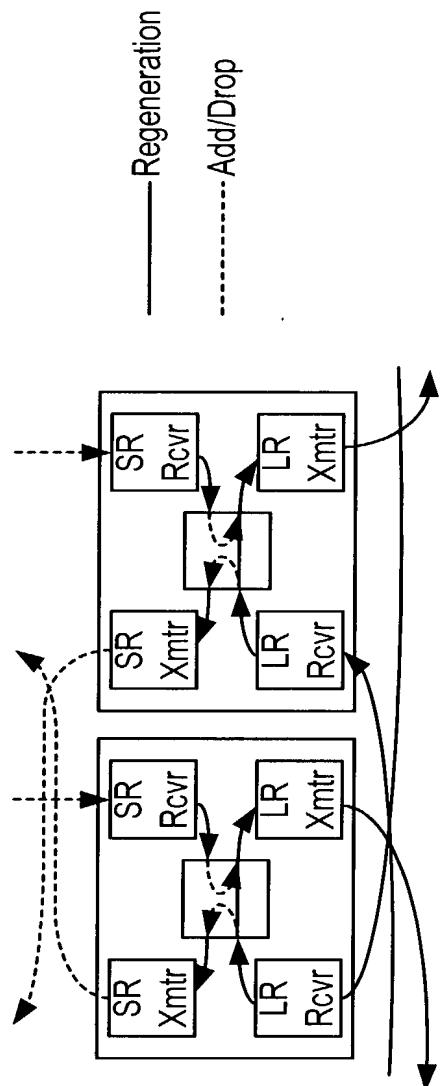


FIG. 38.

**FIG. 39.****FIG. 40.****FIG. 41.**



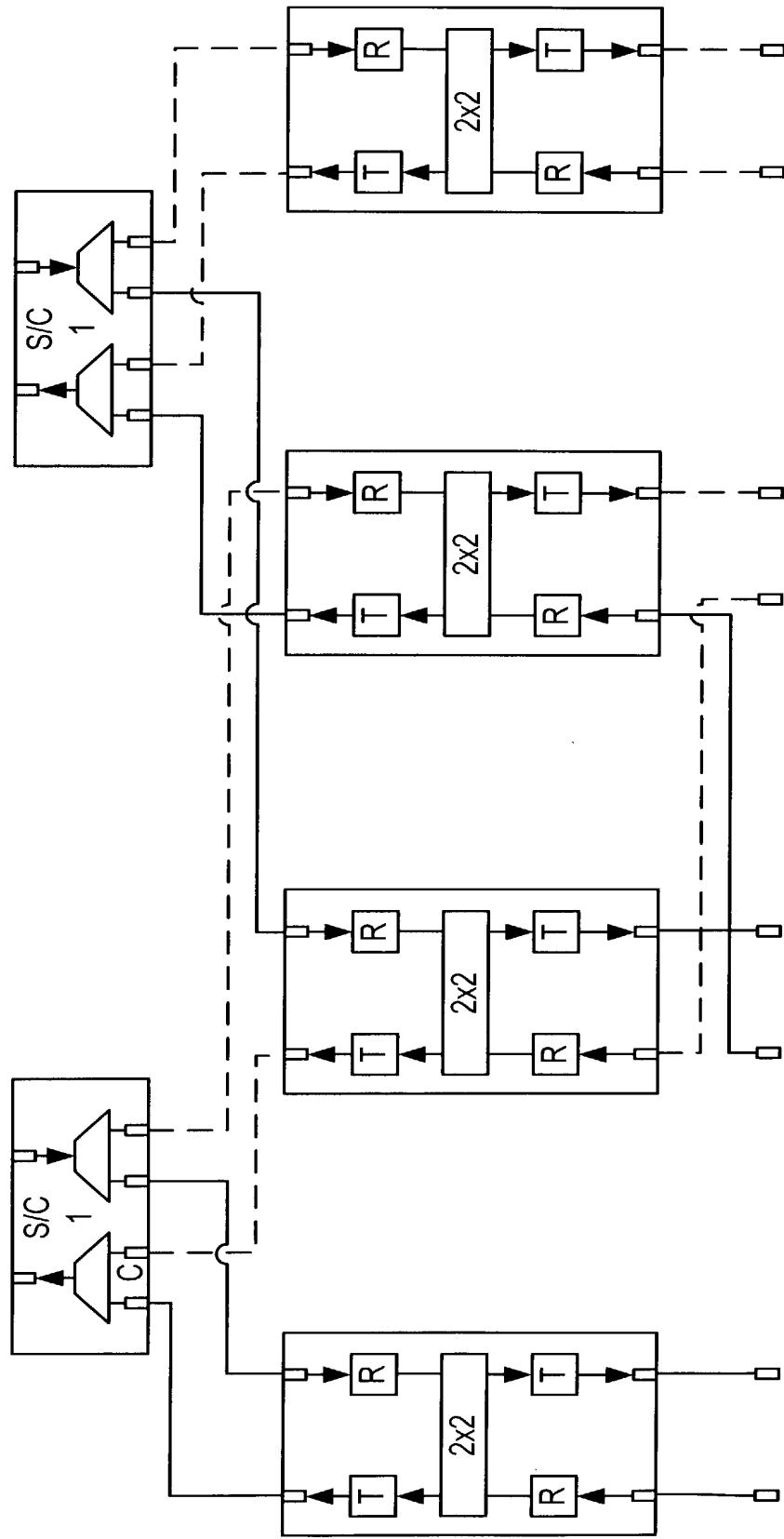
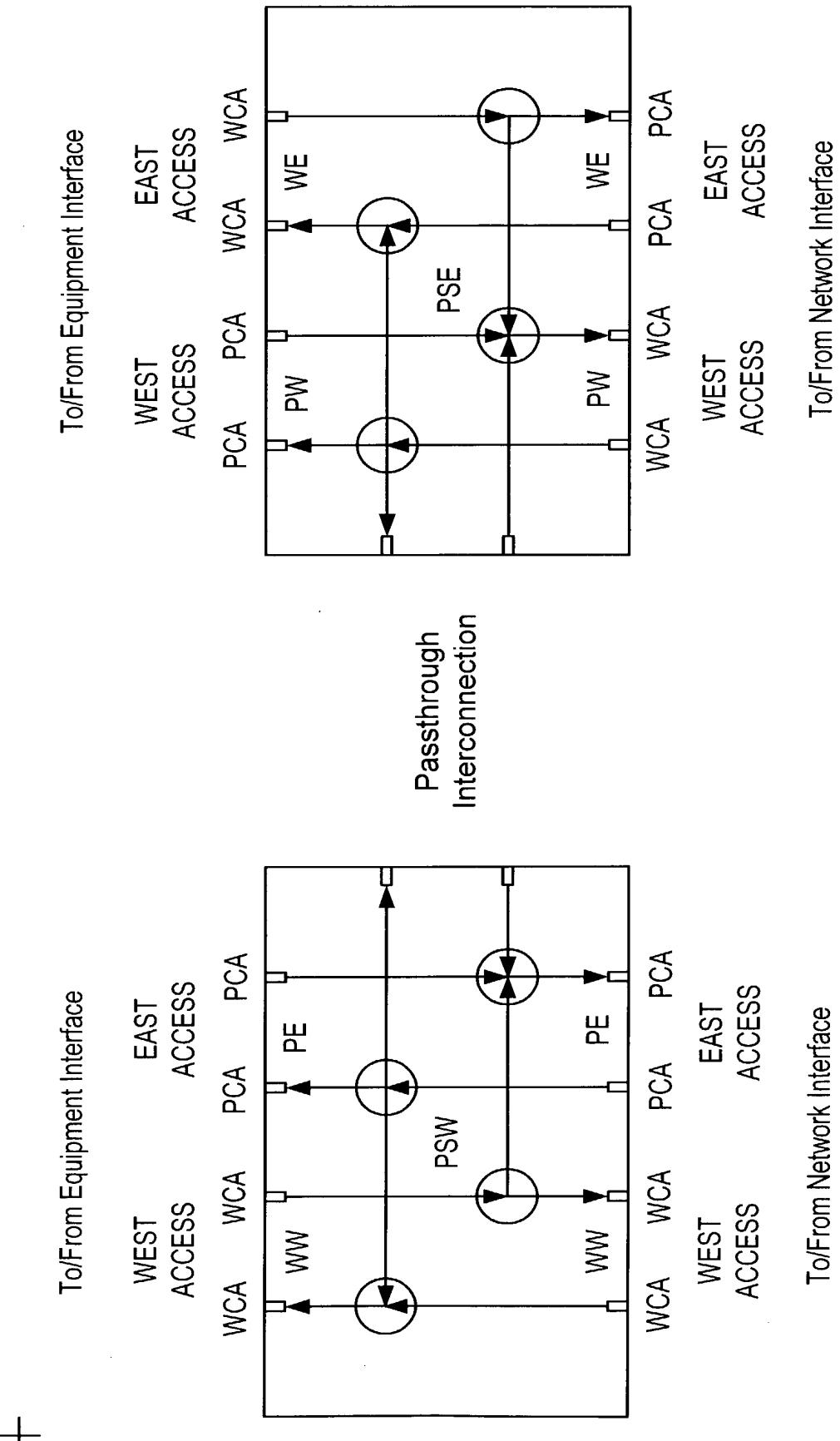


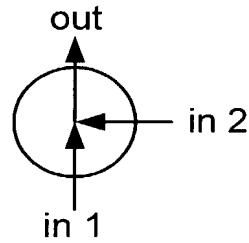
FIG. 44.



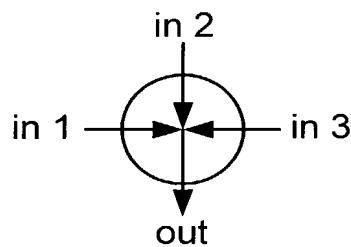
Symbol

37/48

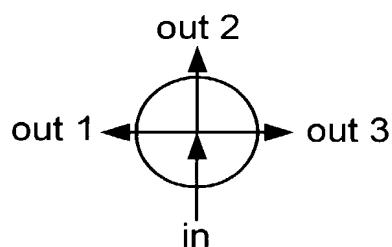
+



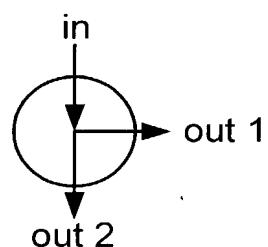
1X2 SWITCH



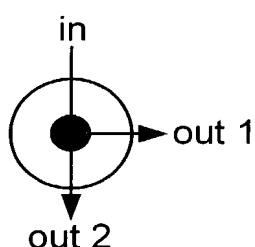
1x3 SWITCH



1X3 SWITCH



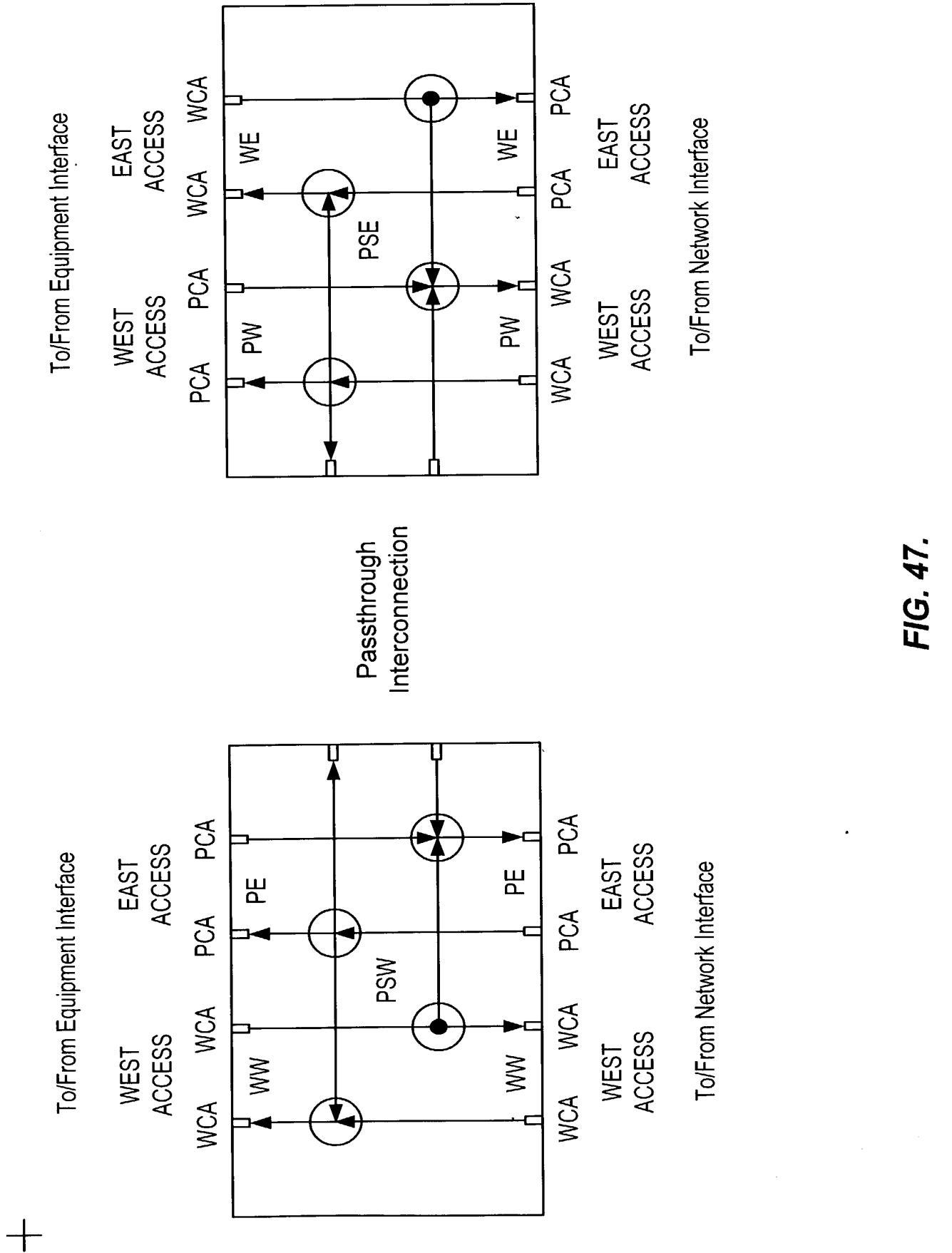
1X2 SWITCH



3 dB SPLITTER

**FIG. 46.**

+



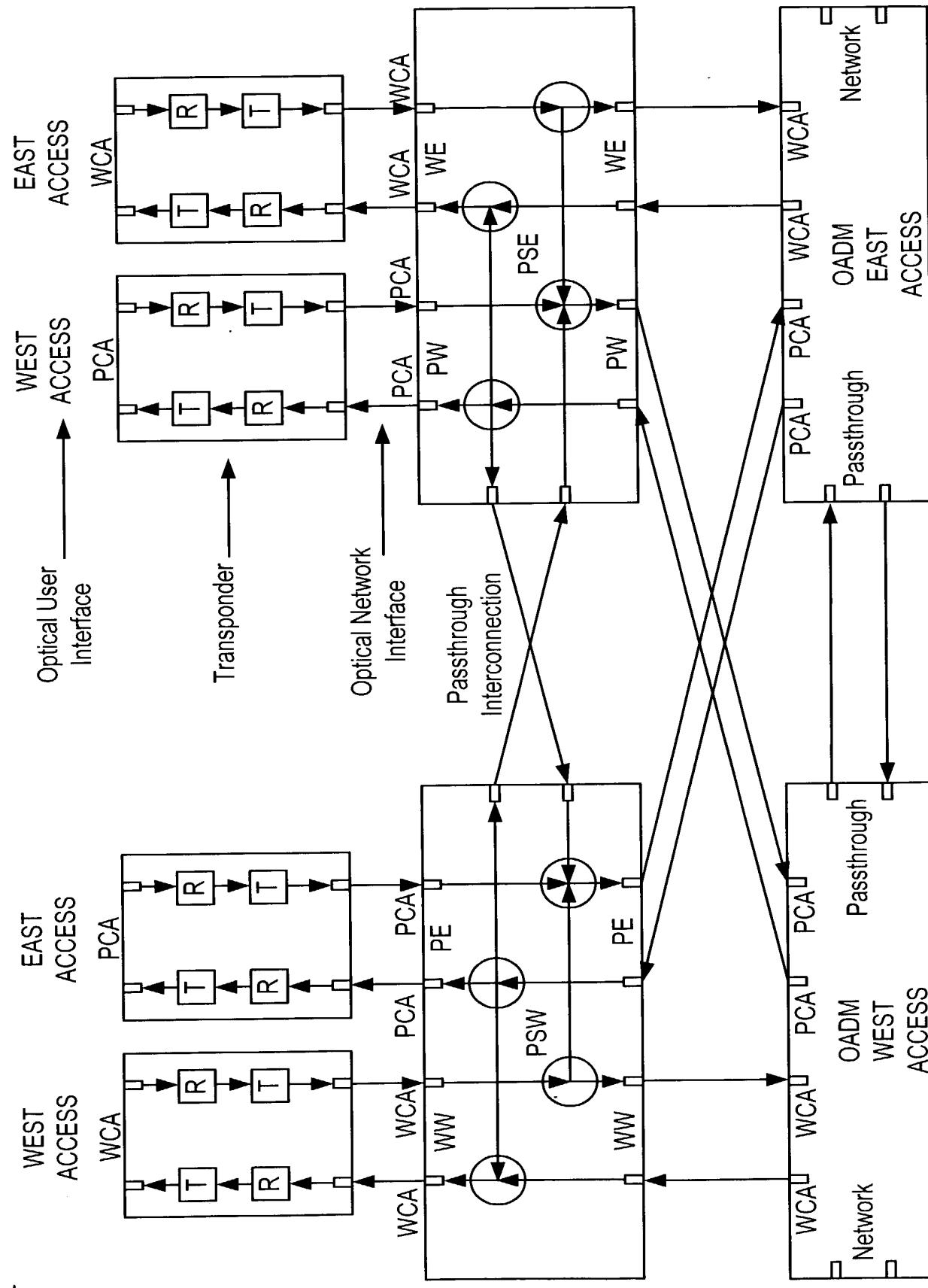


FIG. 48.

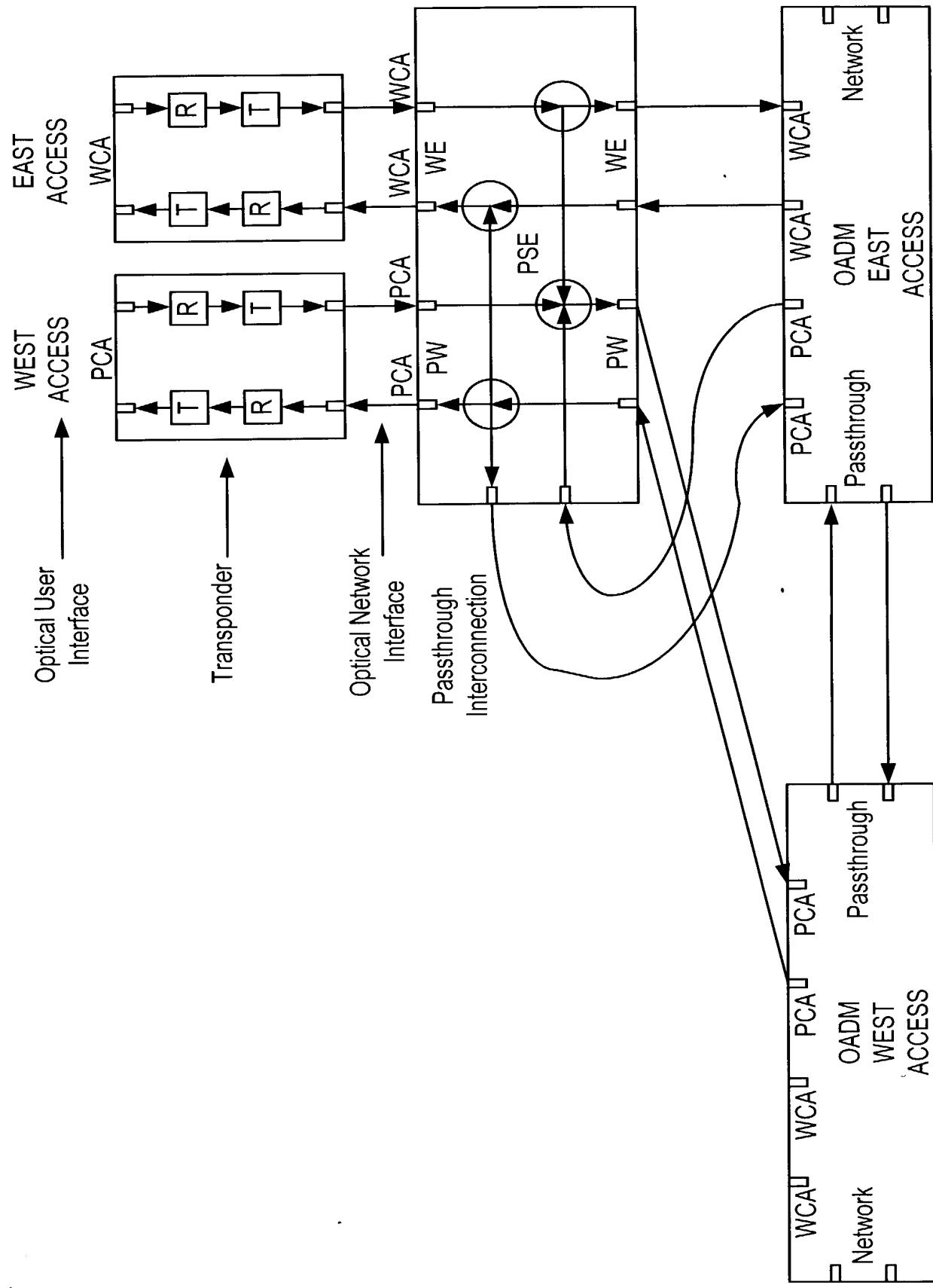


FIG. 49.

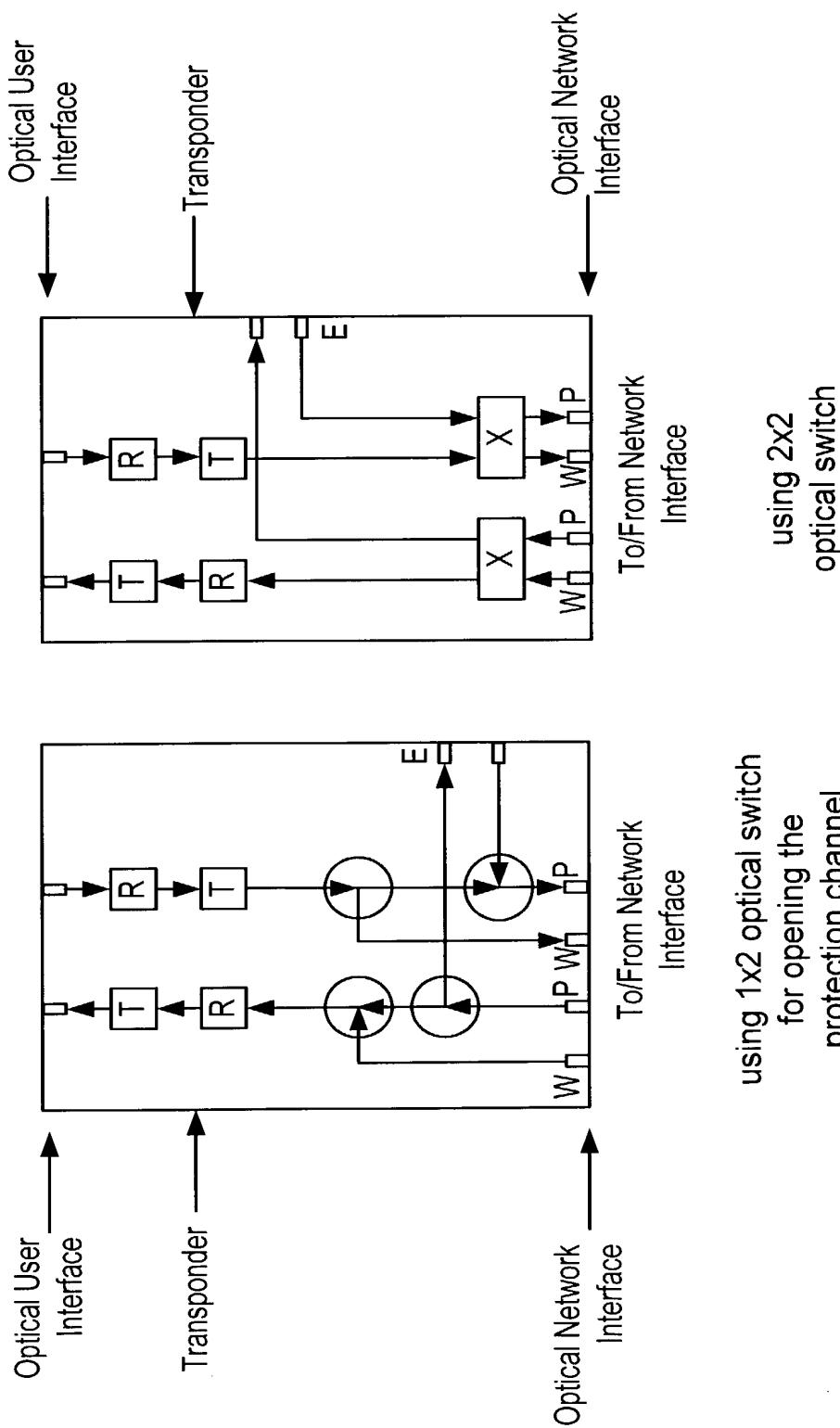
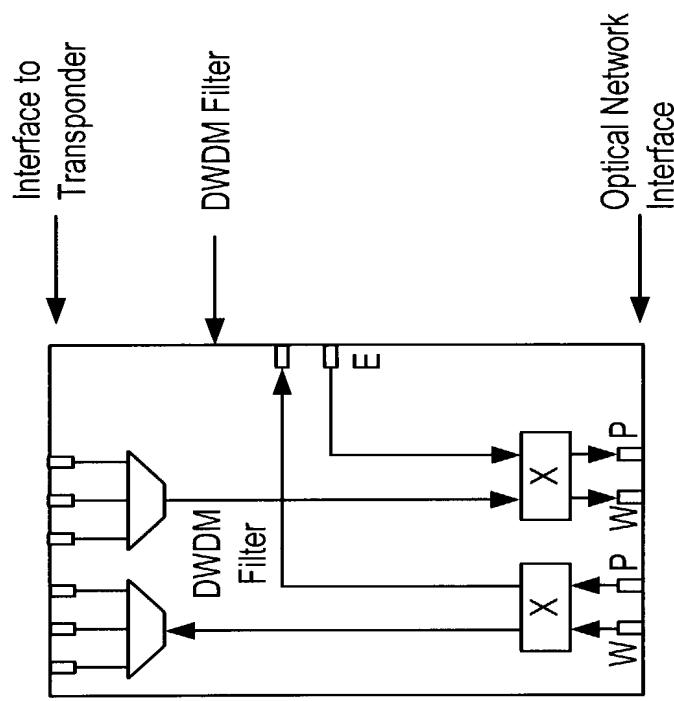
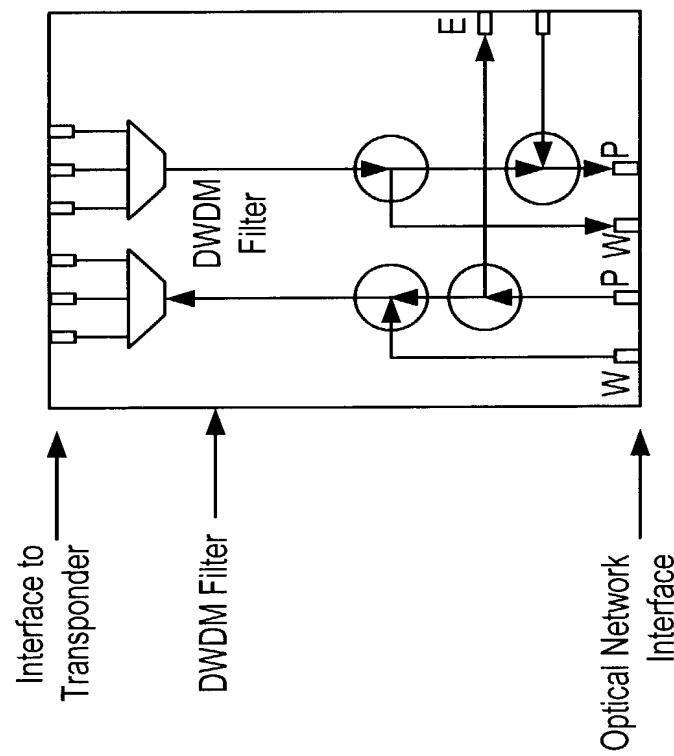


FIG. 50.



using 2x2  
optical switch  
for opening the  
protection channel



**FIG. 51.**

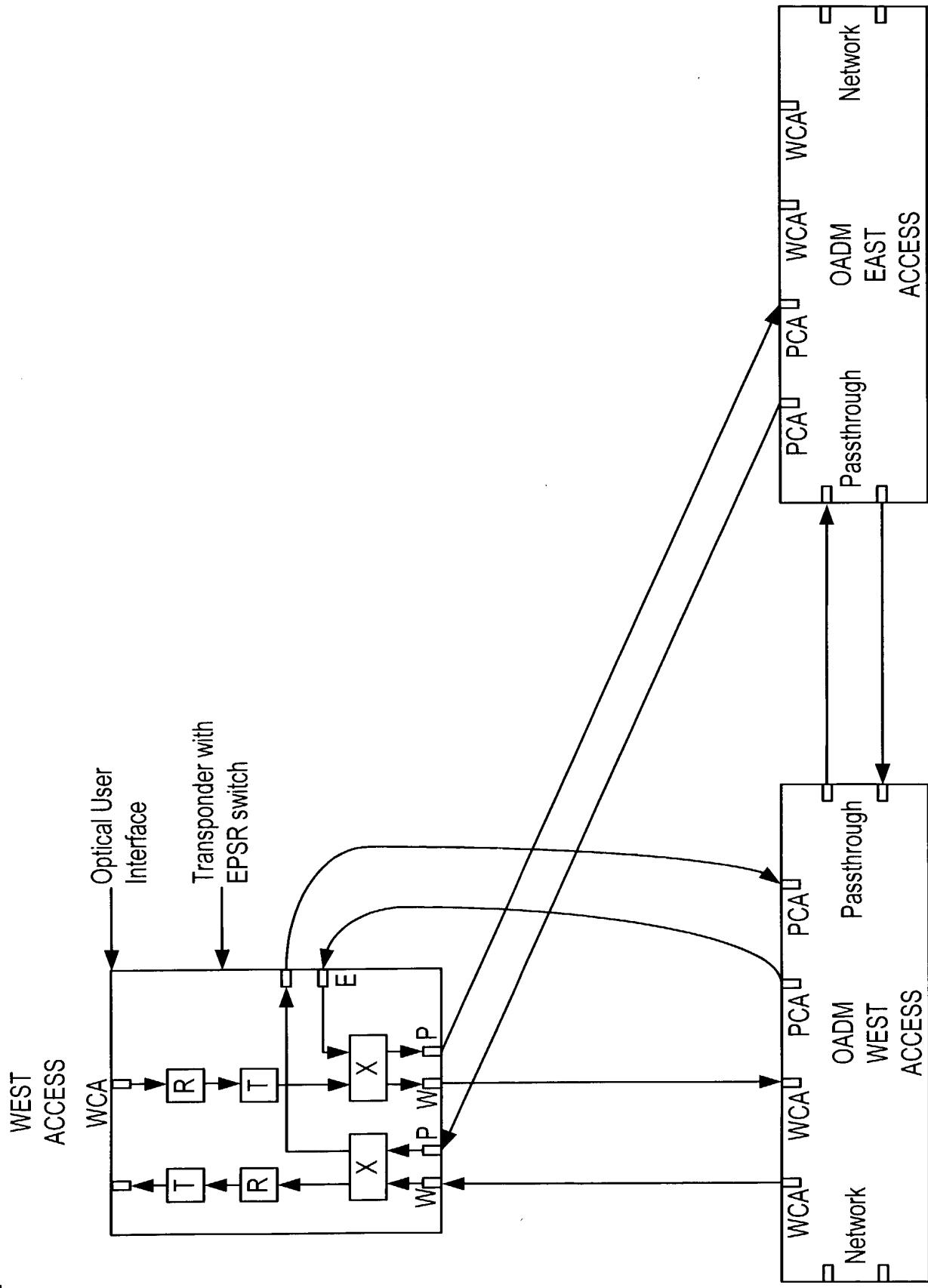


FIG. 52.

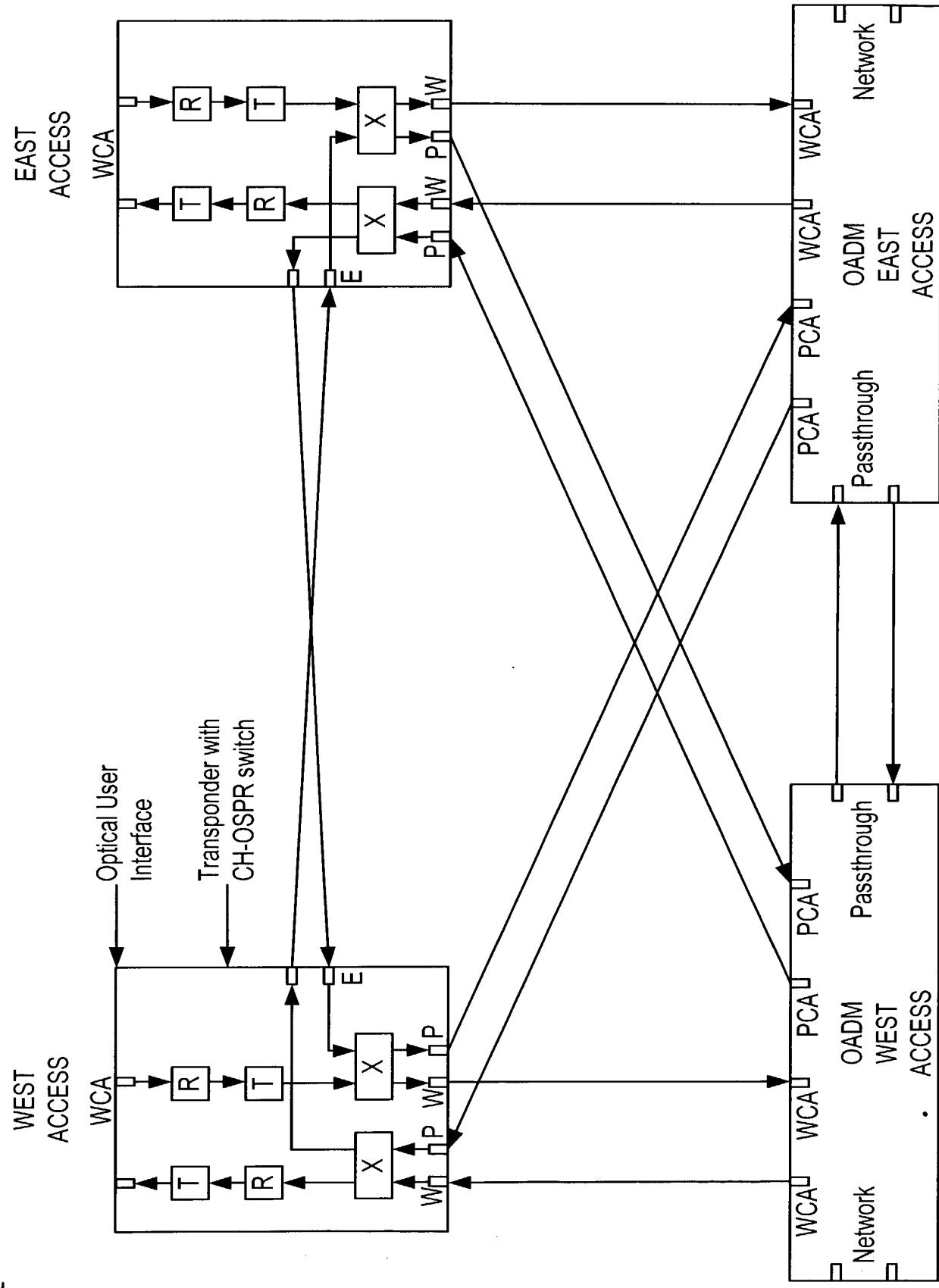


FIG. 53.

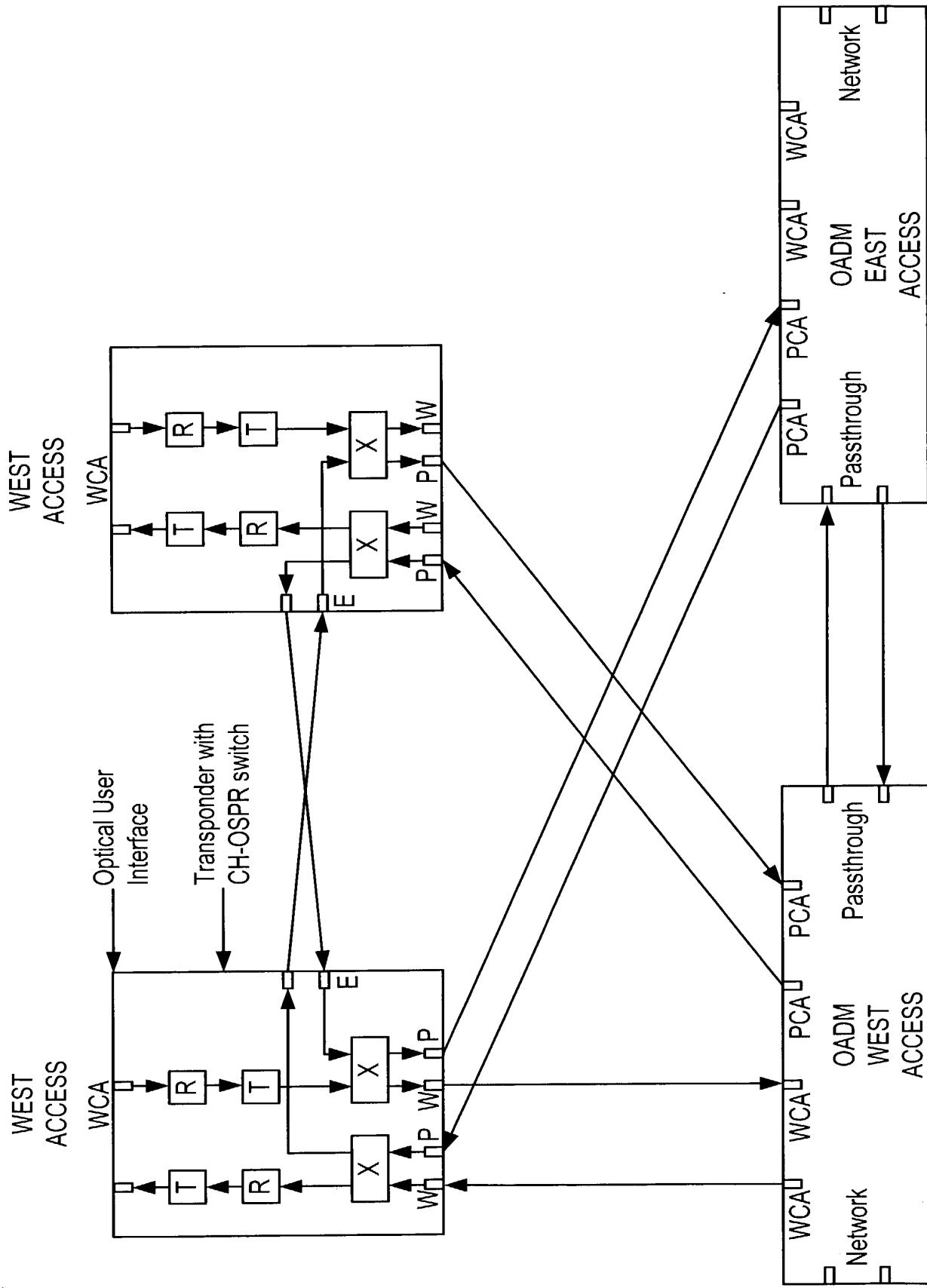


FIG. 54.

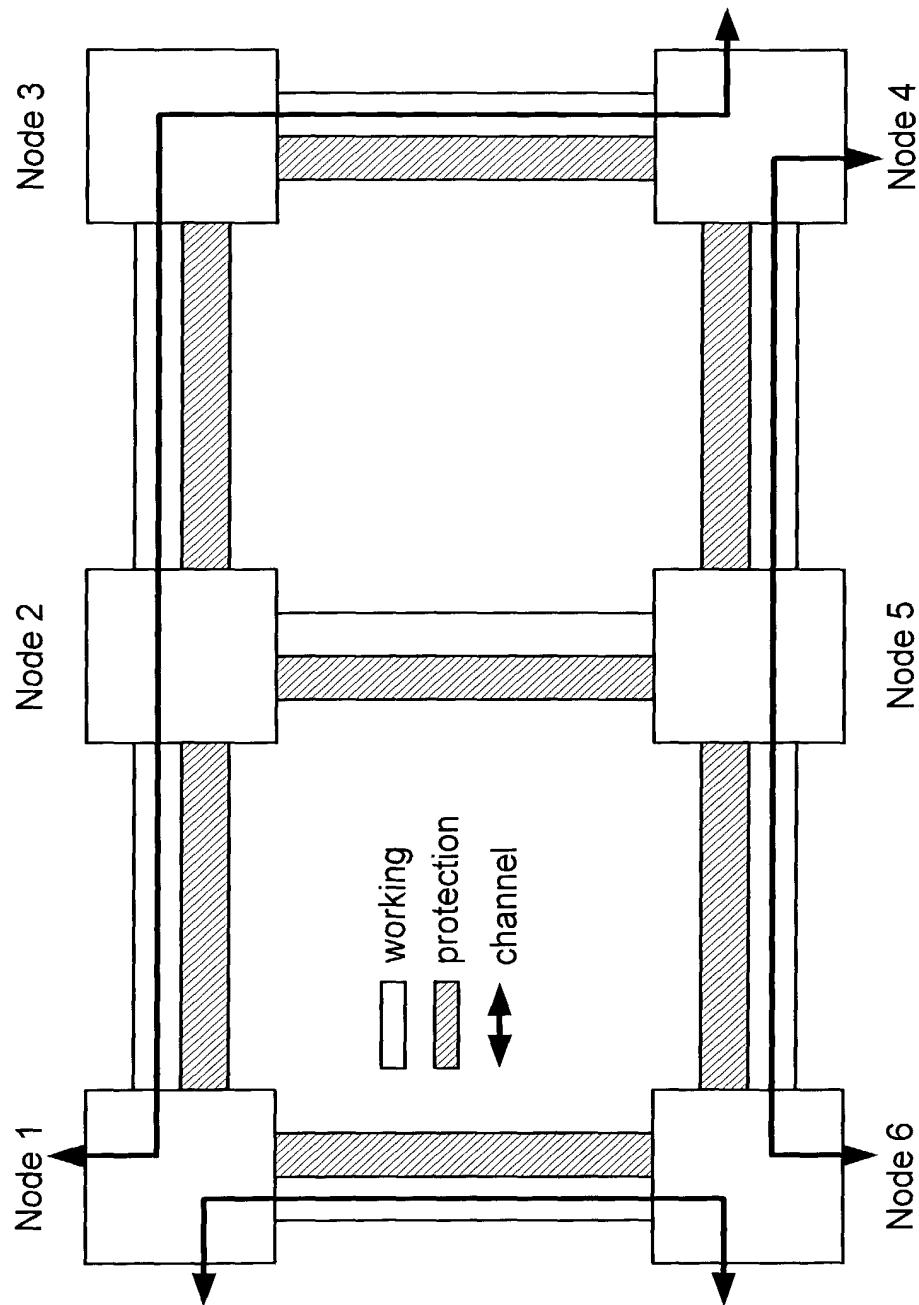


FIG. 55.

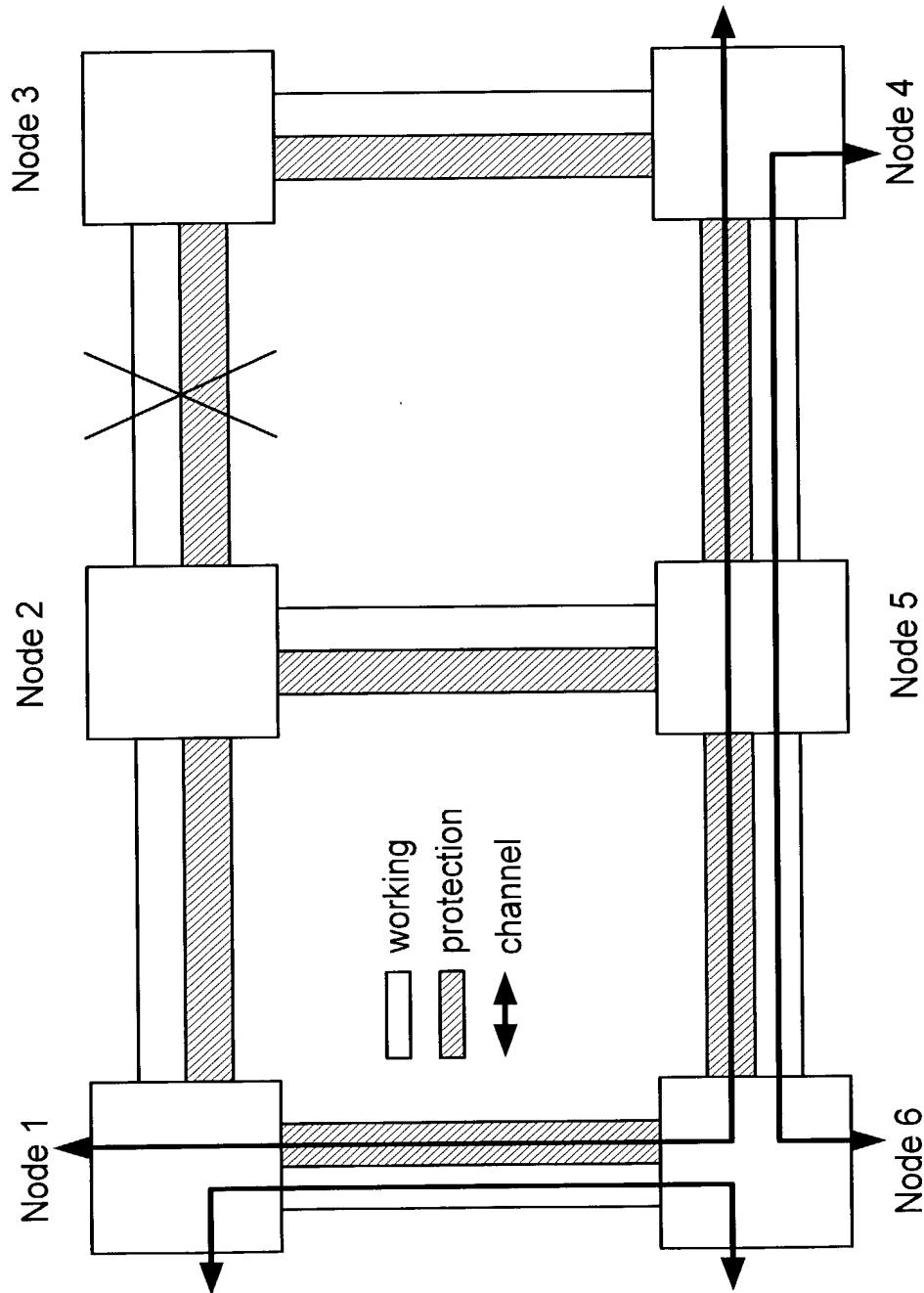


FIG. 56.

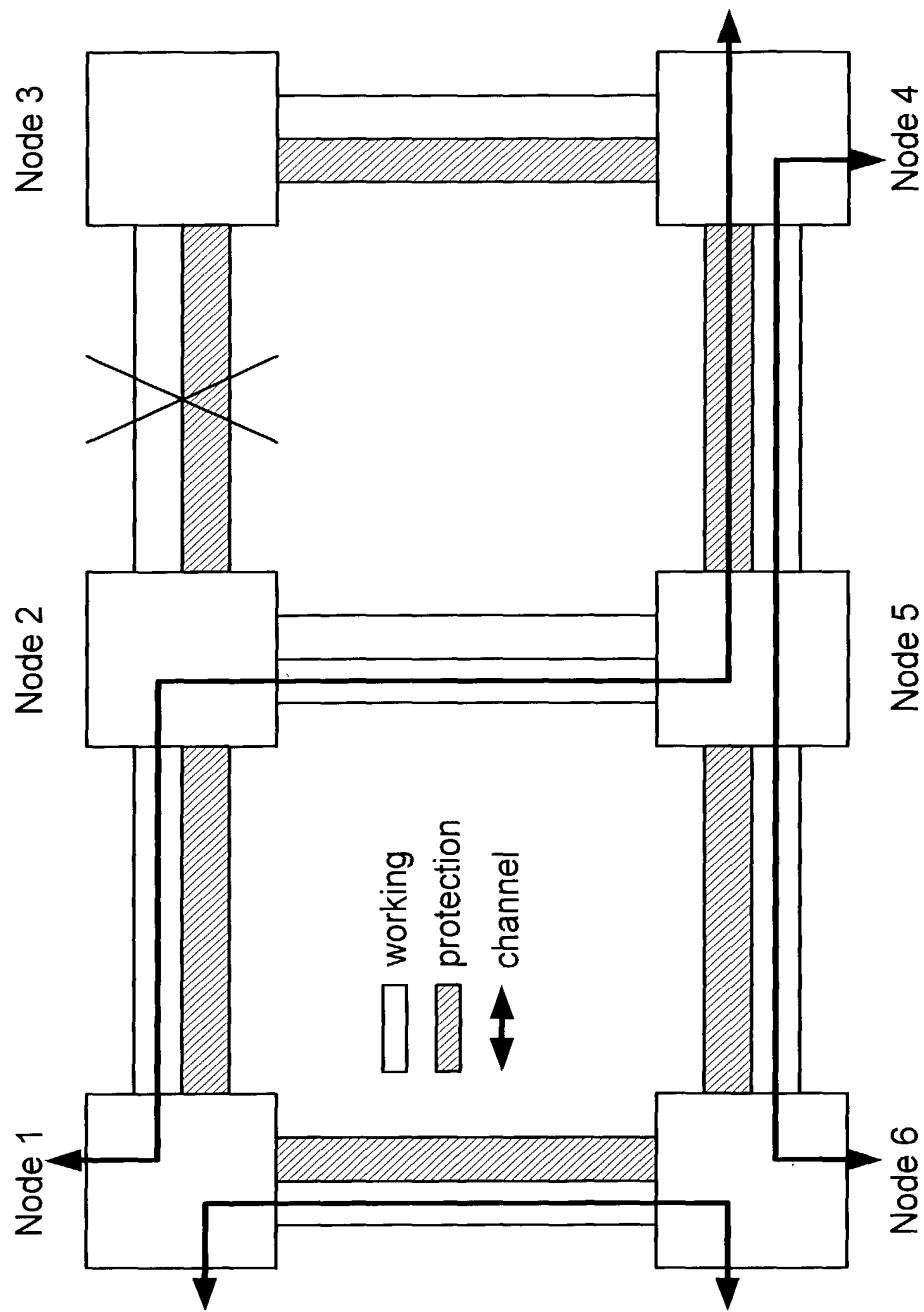


FIG. 57.